

## Disclaimer

The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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## Overview for Request: cder\_sip\_wp001

**Request ID:** cder\_sip\_wp001

**Request Description:** In this report, we performed signal identification by monitoring non-pregnancy and non-cancer outcomes among new users of baloxavir and new users of oseltamivir.

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 12.1.2, with Propensity Score Analysis and Signal Identification modules.

**Data Source:** We distributed this query to six Sentinel Data Partners on October 20, 2023. The study period included data from October 24, 2018 through April 30, 2023. See Appendix A for a list of dates of available data for each Data Partner.

**Study Design:** We identified individuals aged 12+ years with incident use of baloxavir or oseltamivir among an ambulatory cohort excluding those with evidence of pregnancy. We additionally created pediatric (12-18 years), adult (19+ years), and geriatric (65+ years) new user cohorts. For each, we calculated propensity scores (PS) using a conventional user-specified and/or a high-dimensional (hdPS) approach, then matched users using 1:1 and/or 1:2 fixed ratio matching. We monitored matched pairs for non-pregnancy and non-cancer outcomes through day 84. We created two subgroups of patients in each of the "all ages" and "adult" cohorts for descriptive purposes only: 1) those with evidence of treatment less than seven days supply in the first seven days; and 2) those with evidence of either baloxavir any dose or oseltamivir at least 150mg/d on average at index. This is a Type 2 analysis using the Propensity Score Analysis and Signal Identification modules in the Query Request Package (QRP) documentation.

**Exposures of Interest:** Only the first qualifying treatment dispensing or administration was evaluated. We defined exposures using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS), Level II codes. NDCs were queried in the dispensing and procedure tables in the Sentinel Common Data Model (SCDM) format. See Appendix J-K for generic and brand names of medical products, and Appendix L for HCPCS used to define exposures of interest.

**Cohort Eligibility Criteria:** We required eligible members to be aged 12 years or older (aged 12-18, 19+, and 65+ for the pediatric, adult, and geriatric cohorts, respectively) and to be continuously enrolled in health plans with medical and drug coverage for at least 400 days prior to the index date, during which gaps in coverage of up to 45 days were allowed. We defined new use as no evidence of the index-defining exposure in the 183 days prior to index date. We also excluded patients with use of the comparator exposure on the index date or in the 183 days prior to the index date. We additionally excluded users with evidence of live-birth delivery in the two weeks prior through two weeks after the index date, and evidence of pregnancy through two weeks after the index date. Finally, we excluded users with evidence of a non-acute institutional encounter in the 400 days prior to index and acute inpatient encounters in the 10 days prior to and including the index date. Exclusion criteria were defined using NDCs, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), HCPCS, Current Procedural Terminology, Fourth Edition (CPT-4), and encounter Codes. NDCs were queried in the dispensing and procedure tables in the SCDM format. See Appendix O for generic and brand names of medical products, and Appendix P for diagnosis and procedure codes used to define non-exposure exclusion criteria.

**Follow-up Time:** Follow-up began on the day after index dispensing (Day 1) and continued until Day 84 or until the first occurrence of any of the following: 1) death, 2) disenrollment, 3) end of the query period, 4) end of Data Partner data, 5) dispensing or administration of comparator treatment.

**Baseline Characteristics:** We assessed the following characteristics on the index date and included them in both conventional and hdPS models: continuous age, flu season of index date, categorical race, sex (male vs. female), and the quartile of Social Deprivation Index<sup>1</sup>. The following characteristics were also assessed on the index date but not included in PS models: Hispanic ethnicity, calendar year of index date.

We assessed the following characteristics on the 400 days prior to the index date and included them in the conventional PS model: Acute Myocardial Infarction; Acute Respiratory-Related Hospitalization; Alzheimer's Disease; Anemia; Asthma; Atrial Fibrillation or Flutter; Benign Prostatic Hyperplasia; Blood Disorder; Breast Cancer; Cataract; Chronic Kidney Disease; Chronic Lung Disease; Chronic Obstructive Pulmonary Disorder; Colorectal Cancer;

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Combined Comorbidity Score (as a continuous variable); Depression, Bipolar, or Other Mood Disorders; Diabetes; Endometrial Cancer; Glaucoma; Healthcare Utilization Metrics including Mean Number of Ambulatory Encounters, Emergency Room Encounters, Filled Prescriptions, Inpatient Hospital Encounters, and Other Ambulatory Encounters; Heart Failure and Non-Ischemic Heart Disease; Hepatic Disorders; Hip/Pelvic Fracture; Hyperlipidemia; Hypertension; Hypothyroidism; Immunocompromise; Influenza Vaccination; Ischemic Heart Disease; Long-term aspirin- or salicylate-containing medications (only in pediatric cohorts); Lung Cancer; Neurologic and Neurodevelopmental Condition; Non-Alzheimer's Dementia; Obesity; Osteoporosis; Parkinson's Disease and Secondary Parkinsonism; Pneumococcal Vaccination; Prostate Cancer; Rheumatoid Arthritis/Osteoarthritis; SARS-CoV-2 Vaccination; Stroke/Transient Ischemic Attack; Tobacco or Nicotine Use; and Urologic Cancer.

We also assessed the following respiratory infection markers in the three days prior to and including the index date and included them in the conventional PS model: Medically-Attended Acute Respiratory Illness (MAARI); and Severe COVID-Like Illness. We also assessed evidence of COVID-19 in the [-30, -1], [-60, -31], and [-90, -61] days before index and included it in the conventional PS model.

We additionally assessed the following treatment-related characteristics but did not include them in the conventional PS model: Any Antiviral Neuraminidase Inhibitor Days [-400, -1]; Baloxavir Days [-400, -1] and [Ever, -184]; Oseltamivir Days [-400, -1] and [Ever, -184]; Oseltamivir days supply  $\geq 7$  Days on Days [0, 7]; and Oseltamivir Minimum Average Filled Daily Dose of 150mg/d on Days [0, 0] and [-30, 30]. Healthcare utilization metrics we assessed in the 400 days prior to index but did not include in the conventional PS model included Mean Number of Generics Dispensed and Non-Acute Institutional Encounters.

All of these characteristics were defined using NDCs, ICD-10-CM diagnosis codes, ICD-10, ICD-10-PCS procedure codes, HCPCS, Level II codes, CPT-4, Category I, CPT-4, Category II, and CPT-4, Category III codes. NDCs were queried in the dispensing and procedure tables in the SCDM format. See Appendix Q for generic and brand names of medical products, and Appendix R for diagnosis or procedure codes used to define baseline characteristics.

**Propensity Score Adjustment:** The conventional PS model regressed against the characteristics noted above. The hdPS model included certain user-specified demographic characteristics as noted above, in addition to using covariates at each Data Partner identified by the hdPS algorithm as proxy confounders. We considered the top 100 codes (truncating ICD-10 codes to the 3rd level) in the [-183, -1] days around the index date from each category dimension (i.e., diagnosis, procedure, etc) based on the strength of the relationship between the proxy confounder and exposure, and ultimately selected the top 300 to include in the model. After estimating PSs, we performed 1:1 fixed ratio nearest neighbor propensity score matching (PSM) without replacement on the probability scale using a caliper of 0.025, and repeated with a fixed ratio of 1:2 for certain assessments with a caliper of 0.05. We did not perform PS adjustment in any subgroups. We performed a total of 10 PS adjustments: 1:1 PSM for all cohorts except geriatric, 1:2 PSM and 1:1 hdPSM for the "all ages" and adult cohorts, and 1:2 hdPSM for all cohorts except pediatric.

**Outcome Assessment via Signal Identification:** Among the PS- and hdPS-matched baloxavir and oseltamivir pairs, we evaluated new health outcomes of interest (HOI). We used a hierarchical tree of ICD-10-CM diagnostic codes excluding C00-D49 (Neoplasms), O00-O9A (Pregnancy, childbirth and the puerperium), P00-P96 (Certain conditions originating in the perinatal period), Q00-Q99 (Congenital malformations, deformations, and chromosomal abnormalities), V00-Y99 (External causes of morbidity), and Z00-Z99 (Factors influencing health status and contact with health services).

We performed 13 total signal identification assessments: one for each of the PS-adjustments noted above identifying incident HOIs in the inpatient or emergency department settings. We also performed three additional signal identification assessments where incident HOIs were also identified in the ambulatory setting: one for each of the "all ages," "pediatric," and "adult" cohorts using the 1:1 PSM adjustment. For an outcome to be considered incident in an assessment, there must not have been any outcomes with the same first three digits of the ICD-10-CM code in the prior 400 days in the relevant setting (either inpatient plus emergency or inpatient plus emergency plus ambulatory). We evaluated incident HOIs beginning one day after exposure initiation until the end of the exposure episode provided that both members of the matched pair were still able to contribute at-risk time for the outcomes of interest.

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**Tree-Based Scan Statistic:** These data were evaluated via the TreeScan™ software (v.2.0) to determine whether there were imbalances in outcome occurrence between the two exposure groups that rose to the level of statistical significance. TreeScan™ is a data-mining software that implements tree-based scan statistics. Under the null hypothesis, there is no position on the tree where outcomes are expected to occur in a ratio other than the fixed match ratio (1:1 or 1:2) of the cohort. We used unconditional Bernoulli tree-based scan statistic to calculate the log likelihood ratio for every 3rd-6th level node of the outcome tree. See Appendix S for calculation of test statistic.

**Please see Appendices T-W for the specifications of parameters used in this request and a design diagram.**

**Limitations:** Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

**Notes:** Please contact the Sentinel Operations Center ([info@sentinelssystem.org](mailto:info@sentinelssystem.org)) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

<sup>1</sup> Robert Graham Center. Social Deprivation Index. <https://www.graham-center.org/content/brand/rgc/maps-data-tools/social-deprivation-index.html>



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**Appendix G** Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)

**Appendix H** Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)

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**Appendix J** Generic and Brand Names of Medical Products Used to Define Exposure of Interest in this Request

**Appendix K** Generic and Brand Names of Medical Products Used to Define Comparator in this Request

**Appendix L** Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Comparator in this Request

**Appendix M** Generic and Brand Names of Medical Products Used to Define Censor-Defining Codes in this Request

**Appendix N** Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Censor-Defining Codes in this Request

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**Appendix P** International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request

**Appendix Q** Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request

**Appendix R** International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request

**Appendix S** Calculation of the Test Statistic for Unconditional Bernoulli Probability

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**Glossary of Terms for Analyses Using  
Cohort Identification and Descriptive Analysis (CIDA) Module\***

- Amount Supplied** - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.
- Blackout Period** - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.
- Care Setting** - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.
- Ambulatory Visit (AV)** - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.
- Emergency Department (ED)** - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.
- Inpatient Hospital Stay (IP)** - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.
- Non-Acute Institutional Stay (IS)** - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.
- Other Ambulatory Visit (OA)** - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.
- Charlson/Elixhauser Combined Comorbidity Score** - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).
- Code Days** - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.
- Cohort Definition (drug/exposure)** - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.
- Computed Start Marketing Date** - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.
- Days Supplied** - number of days supplied for all dispensings in qualifying treatment episodes.
- Eligible Members** - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.
- Enrollment Gap** - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.
- Episodes** - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.
- Episode Gap** - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.
- Event Deduplication** - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).
- Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time."
- Exposure Extension Period** - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.
- Lookback Period** - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).
- Maximum Episode Duration** - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.
- Member-Years** - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

**Glossary of Terms for Analyses Using  
Cohort Identification and Descriptive Analysis (CIDA) Module\***

- Minimum Days Supplied** - specifies a minimum number of days in length of the days supplied for the episode to be considered.
- Minimum Episode Duration** - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.
- Monitoring Period** - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.
- Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.
- Query Period** - period in which the modular program looks for exposures and outcomes of interest.
- Switch Evaluation Step Value** - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).
- Switch Gap Inclusion Indicator** - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.
- Switch Pattern Cohort Inclusion Date** - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.
- Switch Pattern Cohort Inclusion Strategy** - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.
- Treatment Episode Truncation Indicator** - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.
- Washout Period (drug/exposure)** - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.
- Washout Period (event/outcome)** - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.
- Years at Risk** - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.
- \*all terms may not be used in this report

**Glossary of Terms for Analyses Using  
Propensity Score Analysis (PSA) Module\***

**Covariate** - requester defined binary variable to include in the propensity score estimation model (e.g., diabetes, heart failure, etc.) during requester-defined lookback period. Requester may also choose to add any of the following categorical, continuous, or count metrics to the propensity score estimation model:

1. Age (continuous)
2. Sex
3. Time period (i.e., monitoring period for sequential analyses)
4. Year of exposure
5. Comorbidity score
6. Medical utilization – number of inpatient stays
7. Medical utilization – number of institutional stays
8. Medical utilization – number of emergency department visits
9. Medical utilization – number of outpatient visits
10. Health care utilization – number of other ambulatory encounters (e.g., telemedicine, email consults)
11. Drug utilization – number of dispensings
12. Drug utilization – number of unique generics dispensed
13. Drug Utilization – number of unique drug classes dispensed

**Covariate Evaluation Window** - specified number of days relative to index date to evaluate the occurrence of covariates of interest. Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous enrollment before exposure" field.

**Individual Level Data Return** - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output. Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

**Mahalanobis Distance** - provides a measure of balance across all variables while accounting for their correlation.

**Matching Caliper** - maximum allowed difference in propensity scores between treatment and control patients. Requester may select any caliper (e.g., 0.01, 0.025, and 0.05).

**Matching Ratio** - patients in exposed and comparator groups are nearest neighbor matched by a 1:1 or 1:n (up to 10) matching ratio.

**Matched Conditional and Unconditional Analysis** - in a conditional matched analysis, a Cox model, stratified by Data Partner site and matched set, is run on the matched population. This can be done for both the both 1:1 and 1:n matched cohorts. In an unconditional analysis, a Cox model, stratified by Data Partner site only, is run on the matched population. This can be done for the 1:1 matched cohort only.

**Propensity Score Stratification** - option to stratify propensity scores based on requester-defined percentiles in the unmatched population. In a stratified analysis, a Cox model, stratified by Data Partner site, is run on the stratified population. Note that all patients identified in exposure and comparator cohorts are used in the analysis.

**PSM Tool** - performs effect estimation by comparing exposure propensity-score matched parallel new user cohorts. Propensity score estimation and matching are conducted within each Sentinel Data Partner site via distributed programming code; data are returned to the SOC, aggregated, and used to calculate effect estimates.

**Risk-set Level Data Return** - alternative to the patient-level data return approach. In this approach, the PSM tool will produce de-identified, risk-set level datasets instead of or in addition to individual-level output. Whereas each observation in the patient-level datasets represents one patient in the cohort, each observation in the risk set dataset represents one event. Risk sets are created at the Data Partner site, returned to the SOC, aggregated, and used to calculate effect estimates via case-centered logistic regression.

**Subgroup Analysis** - may be conducted using any requester-defined covariates. Subgroup analyses may be performed in the unmatched and the matched population.

**Zero Cell Correction** - indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150.

\*all terms may not be used in this report



**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,950	100.0%	3,456,633	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	44.6	15.6	-1.395	-0.089
Age						
12-18 years	13,156	17.1%	718,984	20.8%	-3.703	-0.095
19-44 years	29,046	37.7%	1,119,446	32.4%	5.361	0.113
45-64 years	20,193	26.2%	744,482	21.5%	4.704	0.110
≥ 65 years	14,555	18.9%	873,721	25.3%	-6.362	-0.154
Sex						
Female	41,544	54.0%	2,034,357	58.9%	-4.865	-0.098
Male	35,406	46.0%	1,422,276	41.1%	4.865	0.098
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	20,502	0.6%	-0.454	-0.075
Asian	473	0.6%	86,928	2.5%	-1.900	-0.154
Black or African American	1,339	1.7%	241,450	7.0%	-5.245	-0.259
Multi-racial	265	0.3%	16,973	0.5%	-0.147	-0.023
Native Hawaiian or Other Pacific Islander	44	0.1%	7,426	0.2%	-0.158	-0.043
Unknown	58,199	75.6%	1,783,031	51.6%	24.049	0.516
White	16,523	21.5%	1,300,323	37.6%	-16.146	-0.360
Hispanic origin						
Yes	1,424	1.9%	341,350	9.9%	-8.025	-0.347
No	16,796	21.8%	1,562,833	45.2%	-23.385	-0.511
Unknown	58,730	76.3%	1,552,450	44.9%	31.410	0.679

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	860,321	24.9%	8.121	0.180
Q2	20,273	26.3%	816,012	23.6%	2.739	0.063
Q3	18,622	24.2%	861,752	24.9%	-0.730	-0.017
Q4 (Most deprived)	12,524	16.3%	895,235	25.9%	-9.624	-0.238
Unknown	125	0.2%	4,068	0.1%	0.045	0.012
<b>Year</b>						
2018	610	0.8%	163,198	4.7%	-3.929	-0.242
2019	18,370	23.9%	1,493,522	43.2%	-19.335	-0.418
2020	31,865	41.4%	1,160,775	33.6%	7.829	0.162
2021	5,256	6.8%	89,286	2.6%	4.247	0.202
2022	20,410	26.5%	525,037	15.2%	11.334	0.282
2023	439	0.6%	24,815	0.7%	-0.147	-0.018
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,495	13.6%	1,293,192	37.4%	-23.773	-0.567
Flu Season 2019	39,126	50.8%	1,496,739	43.3%	7.546	0.152
Flu Season 2020	2,886	3.8%	50,273	1.5%	2.296	0.145
Flu Season 2021	9,969	13.0%	207,665	6.0%	6.947	0.239
Flu Season 2022	14,474	18.8%	408,764	11.8%	6.984	0.195
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	1.1	1.9	-0.414	-0.238
<i>Acute Myocardial Infarction</i>	416	0.5%	27,352	0.8%	-0.251	-0.031
<i>Alzheimer's Disease</i>	273	0.4%	54,583	1.6%	-1.224	-0.125
<i>Anemia</i>	7,092	9.2%	441,208	12.8%	-3.548	-0.114
<i>Asthma</i>	6,832	8.9%	391,652	11.3%	-2.452	-0.081

**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	160,838	4.7%	-1.201	-0.061
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	171,226	5.0%	-0.360	-0.017
<i>Breast Cancer</i>	1,350	1.8%	67,251	1.9%	-0.191	-0.014
<i>Colorectal Cancer</i>	341	0.4%	19,667	0.6%	-0.126	-0.018
<i>Endometrial Cancer</i>	108	0.1%	7,568	0.2%	-0.079	-0.019
<i>Lung Cancer</i>	215	0.3%	15,070	0.4%	-0.157	-0.026
<i>Prostate Cancer</i>	888	1.2%	43,212	1.3%	-0.096	-0.009
<i>Urologic Cancer</i>	214	0.3%	11,013	0.3%	-0.041	-0.007
<i>Cataract</i>	6,814	8.9%	386,433	11.2%	-2.324	-0.077
<i>Chronic Kidney Disease</i>	3,510	4.6%	241,230	7.0%	-2.417	-0.104
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	341,927	9.9%	-3.077	-0.111
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	641,984	18.6%	-3.708	-0.100
<i>Diabetes</i>	8,653	11.2%	531,262	15.4%	-4.124	-0.122
<i>Glaucoma</i>	3,156	4.1%	184,619	5.3%	-1.240	-0.058
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	171,561	5.0%	-2.016	-0.104
<i>Hepatic Disorders</i>	3,291	4.3%	183,614	5.3%	-1.035	-0.048
<i>Hip/Pelvic Fracture</i>	121	0.2%	8,669	0.3%	-0.094	-0.021
<i>Hyperlipidemia</i>	22,967	29.8%	1,113,228	32.2%	-2.359	-0.051
<i>Hypertension</i>	22,418	29.1%	1,166,196	33.7%	-4.605	-0.099
<i>Hypothyroidism</i>	9,127	11.9%	449,760	13.0%	-1.151	-0.035
<i>Ischemic Heart Disease</i>	5,729	7.4%	310,213	9.0%	-1.529	-0.056
<i>NonAlzheimers Dementia</i>	773	1.0%	133,985	3.9%	-2.872	-0.187
<i>Osteoporosis</i>	2,748	3.6%	168,225	4.9%	-1.296	-0.064
<i>Parkinsonism</i>	207	0.3%	24,541	0.7%	-0.441	-0.063
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	685,098	19.8%	-2.728	-0.070

**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	95,819	2.8%	-1.140	-0.078
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	47,645	1.4%	-0.640	-0.063
<i>Evidence of Any High Risk Marker</i>	22,632	29.4%	1,179,433	34.1%	-4.710	-0.101
<i>High Risk Component: Blood Disorders</i>	22	0.0%	2,290	0.1%	-0.038	-0.017
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	34,815	1.0%	-0.036	-0.004
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	392,260	11.3%	-0.515	-0.016
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	158,323	4.6%	-2.502	-0.140
<i>High Risk Component: Obesity</i>	13,490	17.5%	615,828	17.8%	-0.285	-0.007
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,352	10.9%	484,082	14.0%	-3.151	-0.096
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,159	21.0%	658,164	19.0%	1.959	0.049
Baloxavir Use Prior to Washout	426	0.6%	940	0.0%	0.526	0.098
Oseltamivir Use Prior to Washout	16,395	21.3%	665,747	19.3%	2.046	0.051
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	144,734	4.2%	-2.243	-0.130
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	226	0.3%	26,907	0.8%	-0.485	-0.066
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	48	0.1%	616,477	17.8%	-17.772	-0.655
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	2,770,438	80.1%	NaN	NaN

**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir	Oseltamivir	Absolute Difference	Standardized Difference		
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</b>	709	0.9%	2,766,756	80.0%	-79.121	-2.723
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	212,636	6.2%	-1.565	-0.069
<i>Influenza Vaccination in Prior 400 Days</i>	27,235	35.4%	1,218,270	35.2%	0.149	0.003
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,691	15.2%	314,165	9.1%	6.104	0.188
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	13,151	0.4%	0.358	0.048
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	10,258	0.3%	0.219	0.034
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	34,093	1.0%	1.092	0.089
<i>Hospitalization Days -400 to -11</i>	4,237	5.5%	284,386	8.2%	-2.721	-0.108
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	59,010	76.7%	2,174,812	62.9%	13.769	0.303
<i>COVID Severe Syndrome</i>	173	0.2%	4,848	0.1%	0.085	0.020
<i>Evidence of Influenza Three Days Prior</i>	56,198	73.0%	1,991,440	57.6%	15.420	0.328
<i>Influenza Diagnosis Days -3 to 0</i>	56,180	73.0%	1,990,539	57.6%	15.422	0.328
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	8,416	0.2%	0.184	0.032
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	26,821	0.8%	0.911	0.083
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	25,117	0.7%	0.856	0.080
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	2,326	0.1%	0.083	0.025
<i>Influenza Testing in Prior Six Months</i>	43,984	57.2%	1,356,394	39.2%	17.919	0.365
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	16.4	22.2	-2.230	-0.113
<i>encounters</i>	0.4	1.1	0.6	1.7	-0.289	-0.201

**Table 1a. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.5	-0.045	-0.109
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	8.0	28.3	-4.930	-0.228
<i>Mean number of filled prescriptions</i>	22.1	26.6	29.5	38.6	-7.412	-0.224
<i>Mean number of generics dispensed</i>	7.1	6.0	7.9	6.5	-0.764	-0.123

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,950	100.0%	76,950	2.2%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	43.1	16.1	0.058	0.004
Age						
12-18 years	13,156	17.1%	12,962	16.8%	0.252	0.007
19-44 years	29,046	37.7%	29,804	38.7%	-0.985	-0.020
45-64 years	20,193	26.2%	19,593	25.5%	0.780	0.018
≥ 65 years	14,555	18.9%	14,591	19.0%	-0.047	-0.001
Sex						
Female	41,544	54.0%	41,530	54.0%	0.018	0.000
Male	35,406	46.0%	35,420	46.0%	-0.018	-0.000
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	102	0.1%	0.006	0.002
Asian	473	0.6%	483	0.6%	-0.013	-0.002
Black or African American	1,339	1.7%	1,272	1.7%	0.087	0.007
Multi-racial	265	0.3%	233	0.3%	0.042	0.007
Native Hawaiian or Other Pacific Islander	44	0.1%	42	0.1%	0.003	0.001
Unknown	58,199	75.6%	58,271	75.7%	-0.094	-0.002
White	16,523	21.5%	16,547	21.5%	-0.031	-0.001
Hispanic origin						
Yes	1,424	1.9%	1,811	2.4%	-0.503	-0.035
No	16,796	21.8%	16,772	21.8%	0.031	0.001
Unknown	58,730	76.3%	58,367	75.9%	0.472	0.011

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	25,671	33.4%	-0.351	-0.007
Q2	20,273	26.3%	20,087	26.1%	0.242	0.005
Q3	18,622	24.2%	18,537	24.1%	0.110	0.003
Q4 (Most deprived)	12,524	16.3%	12,528	16.3%	-0.005	-0.000
Unknown	125	0.2%	126	0.2%	-0.001	-0.000
<b>Year</b>						
2018	610	0.8%	1,490	1.9%	-1.144	-0.099
2019	18,370	23.9%	18,896	24.6%	-0.684	-0.016
2020	31,865	41.4%	30,721	39.9%	1.487	0.030
2021	5,256	6.8%	4,852	6.3%	0.525	0.021
2022	20,410	26.5%	20,365	26.5%	0.058	0.001
2023	439	0.6%	626	0.8%	-0.243	-0.029
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,495	13.6%	10,680	13.9%	-0.240	-0.007
Flu Season 2019	39,126	50.8%	39,243	51.0%	-0.152	-0.003
Flu Season 2020	2,886	3.8%	2,753	3.6%	0.173	0.009
Flu Season 2021	9,969	13.0%	9,957	12.9%	0.016	0.000
Flu Season 2022	14,474	18.8%	14,317	18.6%	0.204	0.005
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	0.005	0.003
<i>Acute Myocardial Infarction</i>	416	0.5%	411	0.5%	0.006	0.001
<i>Alzheimers Disease</i>	273	0.4%	276	0.4%	-0.004	-0.001
<i>Anemia</i>	7,092	9.2%	7,049	9.2%	0.056	0.002
<i>Asthma</i>	6,832	8.9%	6,747	8.8%	0.110	0.004



**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	2,661	3.5%	-0.006	-0.000
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	3,562	4.6%	-0.035	-0.002
<i>Breast Cancer</i>	1,350	1.8%	1,355	1.8%	-0.006	-0.000
<i>Colorectal Cancer</i>	341	0.4%	323	0.4%	0.023	0.004
<i>Endometrial Cancer</i>	108	0.1%	132	0.2%	-0.031	-0.008
<i>Lung Cancer</i>	215	0.3%	224	0.3%	-0.012	-0.002
<i>Prostate Cancer</i>	888	1.2%	807	1.0%	0.105	0.010
<i>Urologic Cancer</i>	214	0.3%	227	0.3%	-0.017	-0.003
<i>Cataract</i>	6,814	8.9%	6,744	8.8%	0.091	0.003
<i>Chronic Kidney Disease</i>	3,510	4.6%	3,513	4.6%	-0.004	-0.000
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	5,158	6.7%	0.112	0.004
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	11,229	14.6%	0.272	0.008
<i>Diabetes</i>	8,653	11.2%	8,569	11.1%	0.109	0.003
<i>Glaucoma</i>	3,156	4.1%	3,119	4.1%	0.048	0.002
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	2,218	2.9%	0.065	0.004
<i>Hepatic Disorders</i>	3,291	4.3%	3,295	4.3%	-0.005	-0.000
<i>Hip/Pelvic Fracture</i>	121	0.2%	127	0.2%	-0.008	-0.002
<i>Hyperlipidemia</i>	22,967	29.8%	22,915	29.8%	0.068	0.001
<i>Hypertension</i>	22,418	29.1%	22,298	29.0%	0.156	0.003
<i>Hypothyroidism</i>	9,127	11.9%	9,023	11.7%	0.135	0.004
<i>Ischemic Heart Disease</i>	5,729	7.4%	5,624	7.3%	0.136	0.005
<i>NonAlzheimers Dementia</i>	773	1.0%	757	1.0%	0.021	0.002
<i>Osteoporosis</i>	2,748	3.6%	2,668	3.5%	0.104	0.006
<i>Parkinsonism</i>	207	0.3%	205	0.3%	0.003	0.001
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	13,114	17.0%	0.049	0.001

**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	1,231	1.6%	0.032	0.003
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	548	0.7%	0.026	0.003
<i>Evidence of Any High Risk Marker</i>	22,632	29.4%	22,840	29.7%	-0.270	-0.006
<i>High Risk Component: Blood Disorders</i>	22	0.0%	25	0.0%	-0.004	-0.002
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	737	1.0%	0.013	0.001
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	8,197	10.7%	0.181	0.006
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	1,684	2.2%	-0.110	-0.008
<i>High Risk Component: Obesity</i>	13,490	17.5%	13,491	17.5%	-0.001	-0.000
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,352	10.9%	8,300	10.8%	0.068	0.002
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,159	21.0%	16,033	20.8%	0.164	0.004
<i>Baloxavir Use Prior to Washout</i>	426	0.6%	56	0.1%	0.481	0.086
<i>Oseltamivir Use Prior to Washout</i>	16,395	21.3%	16,254	21.1%	0.183	0.004
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	1,794	2.3%	-0.387	-0.027
<i>Baloxavir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Oseltamivir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Aspirin or salicylate-containing medicines</i>	226	0.3%	252	0.3%	-0.034	-0.006
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	48	0.1%	9,742	12.7%	-12.598	-0.534
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	66,724	86.7%	NaN	NaN

**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	709	0.9%	66,650	86.6%	-85.693	-3.427
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	3,546	4.6%	-0.022	-0.001
<i>Influenza Vaccination in Prior 400 Days</i>	27,235	35.4%	27,393	35.6%	-0.205	-0.004
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,691	15.2%	11,619	15.1%	0.094	0.003
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	540	0.7%	0.036	0.004
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	398	0.5%	-0.001	-0.000
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	1,537	2.0%	0.081	0.006
<i>Hospitalization Days -400 to -11</i>	4,237	5.5%	4,211	5.5%	0.034	0.001
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	59,010	76.7%	59,191	76.9%	-0.235	-0.006
<i>COVID Severe Syndrome</i>	173	0.2%	173	0.2%	0.000	0.000
<i>Evidence of Influenza Three Days Prior</i>	56,198	73.0%	54,801	71.2%	1.815	0.040
<i>Influenza Diagnosis Days -3 to 0</i>	56,180	73.0%	54,757	71.2%	1.849	0.041
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	372	0.5%	-0.056	-0.008
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	1,314	1.7%	-0.021	-0.002
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	1,186	1.5%	0.042	0.003
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	165	0.2%	-0.064	-0.015
<a href="#">Influenza Testing in Prior Six Months</a>	43,984	57.2%	38,321	49.8%	7.359	0.148
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	14.1	18.5	0.043	0.002
<i>encounters</i>	0.4	1.1	0.4	1.6	-0.006	-0.004

**Table 1b. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir	Oseltamivir	Baloxavir	Oseltamivir	Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.001	0.002
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	3.1	10.3	0.038	0.003
<i>Mean number of filled prescriptions</i>	22.1	26.6	22.1	28.7	0.038	0.001
Mean number of generics dispensed	7.1	6.0	6.8	5.8	0.389	0.066

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,902	100.0%	67,208	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	42.7	16.1	0.467	0.029
Age						
12-18 years	13,151	17.1%	11,478	17.1%	0.023	0.001
19-44 years	29,024	37.7%	26,303	39.1%	-1.395	-0.029
45-64 years	20,179	26.2%	17,034	25.3%	0.895	0.020
$\geq 65$ years	14,548	18.9%	12,393	18.4%	0.478	0.012
Sex						
Female	41,518	54.0%	36,176	53.8%	0.161	0.003
Male	35,384	46.0%	31,032	46.2%	-0.161	-0.003
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	90	0.1%	0.005	0.001
Asian	473	0.6%	442	0.7%	-0.043	-0.005
Black or African American	1,339	1.7%	1,142	1.7%	0.042	0.003
Multi-racial	265	0.3%	210	0.3%	0.032	0.006
Native Hawaiian or Other Pacific Islander	44	0.1%	41	0.1%	-0.004	-0.002
Unknown	58,159	75.6%	51,236	76.2%	-0.608	-0.014
White	16,515	21.5%	14,047	20.9%	0.575	0.014
Hispanic origin						
Yes	1,424	1.9%	1,656	2.5%	-0.612	-0.042
No	16,788	21.8%	14,280	21.2%	0.583	0.014
Unknown	58,690	76.3%	51,272	76.3%	0.029	0.001

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,386	33.0%	22,099	32.9%	0.129	0.003
Q2	20,256	26.3%	17,534	26.1%	0.251	0.006
Q3	18,607	24.2%	16,286	24.2%	-0.037	-0.001
Q4 (Most deprived)	12,523	16.3%	11,181	16.6%	-0.352	-0.009
Unknown	125	0.2%	107	0.2%	0.003	0.001
Year						
2018	610	0.8%	1,337	2.0%	-1.196	-0.102
2019	18,365	23.9%	16,355	24.3%	-0.454	-0.011
2020	31,849	41.4%	26,459	39.4%	2.046	0.042
2021	5,250	6.8%	4,337	6.5%	0.374	0.015
2022	20,389	26.5%	18,115	27.0%	-0.441	-0.010
2023	439	0.6%	605	0.9%	-0.329	-0.039
Season <sup>6</sup>						
Flu Season 2018	10,492	13.6%	9,261	13.8%	-0.136	-0.004
Flu Season 2019	39,108	50.9%	33,796	50.3%	0.569	0.011
Flu Season 2020	2,885	3.8%	2,527	3.8%	-0.008	-0.000
Flu Season 2021	9,956	12.9%	8,804	13.1%	-0.153	-0.005
Flu Season 2022	14,461	18.8%	12,820	19.1%	-0.271	-0.007
<b>Chronic Conditions</b>						
Charlson/Elixhauser combined comorbidity score <sup>7</sup>	0.7	1.5	0.7	1.5	0.029	0.019
Acute Myocardial Infarction	416	0.5%	359	0.5%	0.007	0.001
Alzheimers Disease	273	0.4%	145	0.2%	0.139	0.026
Anemia	7,082	9.2%	5,971	8.9%	0.325	0.011
Asthma	6,830	8.9%	5,968	8.9%	0.002	0.000

**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,653	3.4%	2,250	3.3%	0.102	0.006
<i>Benign Prostatic Hyperplasia</i>	3,533	4.6%	3,062	4.6%	0.038	0.002
<i>Breast Cancer</i>	1,349	1.8%	1,157	1.7%	0.033	0.002
<i>Colorectal Cancer</i>	341	0.4%	275	0.4%	0.034	0.005
<i>Endometrial Cancer</i>	107	0.1%	113	0.2%	-0.029	-0.007
<i>Lung Cancer</i>	215	0.3%	176	0.3%	0.018	0.003
<i>Prostate Cancer</i>	888	1.2%	707	1.1%	0.103	0.010
<i>Urologic Cancer</i>	213	0.3%	183	0.3%	0.005	0.001
<i>Cataract</i>	6,808	8.9%	5,763	8.6%	0.278	0.010
<i>Chronic Kidney Disease</i>	3,509	4.6%	2,982	4.4%	0.126	0.006
<i>Chronic Obstructive Pulmonary Disorder</i>	5,243	6.8%	4,478	6.7%	0.155	0.006
<i>Depression/Bipolar/Other Mood Disorders</i>	11,430	14.9%	9,760	14.5%	0.341	0.010
<i>Diabetes</i>	8,649	11.2%	7,422	11.0%	0.203	0.006
<i>Glaucoma</i>	3,156	4.1%	2,672	4.0%	0.128	0.007
<i>Heart Failure and Nonischemic Heart Disease</i>	2,264	2.9%	1,823	2.7%	0.232	0.014
<i>Hepatic Disorders</i>	3,289	4.3%	2,894	4.3%	-0.029	-0.001
<i>Hip/Pelvic Fracture</i>	121	0.2%	100	0.1%	0.009	0.002
<i>Hyperlipidemia</i>	22,955	29.8%	19,838	29.5%	0.332	0.007
<i>Hypertension</i>	22,401	29.1%	19,252	28.6%	0.484	0.011
<i>Hypothyroidism</i>	9,118	11.9%	7,654	11.4%	0.468	0.015
<i>Ischemic Heart Disease</i>	5,723	7.4%	4,825	7.2%	0.263	0.010
<i>NonAlzheimers Dementia</i>	771	1.0%	409	0.6%	0.394	0.044
<i>Osteoporosis</i>	2,746	3.6%	2,236	3.3%	0.244	0.013
<i>Parkinsonism</i>	207	0.3%	147	0.2%	0.050	0.010
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,145	17.1%	11,314	16.8%	0.259	0.007

**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,254	1.6%	1,021	1.5%	0.111	0.009
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	456	0.7%	0.060	0.007
Evidence of Any High Risk Marker	22,614	29.4%	19,867	29.6%	-0.154	-0.003
<i>High Risk Component: Blood Disorders</i>	22	0.0%	22	0.0%	-0.004	-0.002
<i>High Risk Component: Chronic Lung Disease</i>	746	1.0%	604	0.9%	0.071	0.007
<i>High Risk Component: Immunocompromised</i>	8,328	10.8%	7,007	10.4%	0.404	0.013
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,597	2.1%	1,374	2.0%	0.032	0.002
<i>High Risk Component: Obesity</i>	13,480	17.5%	11,884	17.7%	-0.154	-0.004
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,343	10.8%	7,302	10.9%	-0.016	-0.001
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,145	21.0%	13,468	20.0%	0.955	0.024
Baloxavir Use Prior to Washout	425	0.6%	45	0.1%	0.486	0.087
Oseltamivir Use Prior to Washout	16,381	21.3%	13,654	20.3%	0.985	0.024
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,495	1.9%	1,452	2.2%	-0.216	-0.015
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	226	0.3%	217	0.3%	-0.029	-0.005
Oseltamivir Days Supply $\geq 7$ Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq 150$ mg Day 0	0	0.0%	65,558	97.5%	NaN	NaN



**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose <math>\geq</math> 150mg Days -30 to 30</a>	700	0.9%	65,524	97.5%	-96.584	-7.468
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,524	4.6%	3,027	4.5%	0.079	0.004
<i>Influenza Vaccination in Prior 400 Days</i>	27,214	35.4%	23,299	34.7%	0.721	0.015
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,674	15.2%	10,233	15.2%	-0.046	-0.001
<i>Evidence of COVID Three Months Prior</i>	567	0.7%	478	0.7%	0.026	0.003
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	343	0.5%	0.006	0.001
<i>Evidence of COVID One Month Prior</i>	1,598	2.1%	1,413	2.1%	-0.024	-0.002
<i>Hospitalization Days -400 to -11</i>	4,232	5.5%	3,591	5.3%	0.160	0.007
<b>Respiratory Infection Markers</b>						
<a href="#">Medically-Attended Acute Respiratory Illness</a>	58,993	76.7%	55,918	83.2%	-6.489	-0.163
<i>COVID Severe Syndrome</i>	172	0.2%	161	0.2%	-0.016	-0.003
<i>Evidence of Influenza Three Days Prior</i>	56,181	73.1%	51,956	77.3%	-4.251	-0.099
<i>Influenza Diagnosis Days -3 to 0</i>	56,163	73.0%	51,912	77.2%	-4.209	-0.097
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	363	0.5%	-0.112	-0.016
<i>Evidence of COVID Three Days Prior</i>	1,297	1.7%	1,220	1.8%	-0.129	-0.010
<i>COVID Diagnosis Days -3 to 0</i>	1,217	1.6%	1,099	1.6%	-0.053	-0.004
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	151	0.2%	-0.074	-0.017
<i>Influenza Testing in Prior Six Months</i>	43,973	57.2%	36,164	53.8%	3.371	0.068
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	13.9	18.0	0.218	0.012
<i>encounters</i>	0.4	1.1	0.4	1.7	-0.011	-0.007

**Table 1c. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.002	0.007
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	2.8	9.5	0.271	0.026
<i>Mean number of filled prescriptions</i>	22.1	26.5	21.3	27.0	0.816	0.030
Mean number of generics dispensed	7.1	6.0	6.7	5.8	0.435	0.074

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	66,447	86.4%	66,447	98.9%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	42.6	15.8	42.6	16.1	0.012	0.001
Age						
12-18 years	11,701	17.6%	11,421	17.2%	0.421	0.011
19-44 years	25,421	38.3%	26,109	39.3%	-1.035	-0.021
45-64 years	17,366	26.1%	16,846	25.4%	0.783	0.018
$\geq$ 65 years	11,959	18.0%	12,071	18.2%	-0.169	-0.004
Sex						
Female	35,714	53.7%	35,742	53.8%	-0.042	-0.001
Male	30,733	46.3%	30,705	46.2%	0.042	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	89	0.1%	88	0.1%	0.002	0.000
Asian	416	0.6%	414	0.6%	0.003	0.000
Black or African American	1,105	1.7%	1,111	1.7%	-0.009	-0.001
Multi-racial	209	0.3%	208	0.3%	0.002	0.000
Native Hawaiian or Other Pacific Islander	35	0.1%	33	0.0%	0.003	0.001
Unknown	50,808	76.5%	50,815	76.5%	-0.011	-0.000
White	13,785	20.7%	13,778	20.7%	0.011	0.000
Hispanic origin						
Yes	1,254	1.9%	1,610	2.4%	-0.536	-0.037
No	13,984	21.0%	13,970	21.0%	0.021	0.001
Unknown	51,209	77.1%	50,867	76.6%	0.515	0.012

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	21,861	32.9%	21,847	32.9%	0.021	0.000
Q2	17,430	26.2%	17,405	26.2%	0.038	0.001
Q3	16,073	24.2%	16,086	24.2%	-0.020	-0.000
Q4 (Most deprived)	10,973	16.5%	11,006	16.6%	-0.050	-0.001
Unknown	105	0.2%	102	0.2%	0.005	0.001
Year						
2018	507	0.8%	1,329	2.0%	-1.237	-0.106
2019	16,040	24.1%	16,270	24.5%	-0.346	-0.008
2020	27,553	41.5%	26,334	39.6%	1.835	0.037
2021	4,517	6.8%	4,244	6.4%	0.411	0.017
2022	17,449	26.3%	17,674	26.6%	-0.339	-0.008
2023	381	0.6%	596	0.9%	-0.324	-0.038
Season <sup>6</sup>						
Flu Season 2018	9,157	13.8%	9,202	13.8%	-0.068	-0.002
Flu Season 2019	33,901	51.0%	33,655	50.6%	0.370	0.007
Flu Season 2020	2,479	3.7%	2,476	3.7%	0.005	0.000
Flu Season 2021	8,504	12.8%	8,600	12.9%	-0.144	-0.004
Flu Season 2022	12,406	18.7%	12,514	18.8%	-0.163	-0.004
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	0.008	0.005
<i>Acute Myocardial Infarction</i>	348	0.5%	334	0.5%	0.021	0.003
<i>Alzheimers Disease</i>	145	0.2%	145	0.2%	0.000	0.000
<i>Anemia</i>	5,895	8.9%	5,812	8.7%	0.125	0.004
<i>Asthma</i>	5,863	8.8%	5,858	8.8%	0.008	0.000

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,195	3.3%	2,177	3.3%	0.027	0.002
<i>Benign Prostatic Hyperplasia</i>	2,956	4.4%	2,956	4.4%	0.000	0.000
<i>Breast Cancer</i>	1,103	1.7%	1,121	1.7%	-0.027	-0.002
<i>Colorectal Cancer</i>	275	0.4%	268	0.4%	0.011	0.002
<i>Endometrial Cancer</i>	100	0.2%	96	0.1%	0.006	0.002
<i>Lung Cancer</i>	163	0.2%	163	0.2%	0.000	0.000
<i>Prostate Cancer</i>	707	1.1%	698	1.1%	0.014	0.001
<i>Urologic Cancer</i>	172	0.3%	171	0.3%	0.002	0.000
<i>Cataract</i>	5,635	8.5%	5,621	8.5%	0.021	0.001
<i>Chronic Kidney Disease</i>	2,909	4.4%	2,882	4.3%	0.041	0.002
<i>Chronic Obstructive Pulmonary Disorder</i>	4,411	6.6%	4,354	6.6%	0.086	0.003
<i>Depression/Bipolar/Other Mood Disorders</i>	9,732	14.6%	9,631	14.5%	0.152	0.004
<i>Diabetes</i>	7,303	11.0%	7,230	10.9%	0.110	0.004
<i>Glaucoma</i>	2,600	3.9%	2,606	3.9%	-0.009	-0.000
<i>Heart Failure and Nonischemic Heart Disease</i>	1,794	2.7%	1,762	2.7%	0.048	0.003
<i>Hepatic Disorders</i>	2,832	4.3%	2,819	4.2%	0.020	0.001
<i>Hip/Pelvic Fracture</i>	92	0.1%	97	0.1%	-0.008	-0.002
<i>Hyperlipidemia</i>	19,431	29.2%	19,418	29.2%	0.020	0.000
<i>Hypertension</i>	18,908	28.5%	18,884	28.4%	0.036	0.001
<i>Hypothyroidism</i>	7,579	11.4%	7,511	11.3%	0.102	0.003
<i>Ischemic Heart Disease</i>	4,722	7.1%	4,698	7.1%	0.036	0.001
<i>NonAlzheimers Dementia</i>	417	0.6%	408	0.6%	0.014	0.002
<i>Osteoporosis</i>	2,225	3.3%	2,190	3.3%	0.053	0.003
<i>Parkinsonism</i>	153	0.2%	138	0.2%	0.023	0.005
<i>Rheumatoid Arthritis/Osteoarthritis</i>	11,116	16.7%	11,071	16.7%	0.068	0.002

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,003	1.5%	996	1.5%	0.011	0.001
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	444	0.7%	441	0.7%	0.005	0.001
Evidence of Any High Risk Marker	19,496	29.3%	19,532	29.4%	-0.054	-0.001
<i>High Risk Component: Blood Disorders</i>	15	0.0%	18	0.0%	-0.005	-0.003
<i>High Risk Component: Chronic Lung Disease</i>	591	0.9%	588	0.9%	0.005	0.000
<i>High Risk Component: Immunocompromised</i>	6,947	10.5%	6,899	10.4%	0.072	0.002
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,372	2.1%	1,346	2.0%	0.039	0.003
<i>High Risk Component: Obesity</i>	11,733	17.7%	11,697	17.6%	0.054	0.001
<i>High Risk Component: Tobacco or Nicotine Use</i>	7,197	10.8%	7,138	10.7%	0.089	0.003
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	13,428	20.2%	13,409	20.2%	0.029	0.001
Baloxavir Use Prior to Washout	348	0.5%	43	0.1%	0.459	0.085
Oseltamivir Use Prior to Washout	13,631	20.5%	13,594	20.5%	0.056	0.001
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,234	1.9%	1,447	2.2%	-0.321	-0.023
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	188	0.3%	211	0.3%	-0.035	-0.006
Oseltamivir Days Supply $\geq$ 7 Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Day 0	0	0.0%	64,819	97.5%	NaN	NaN

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose <math>\geq</math> 150mg Days -30 to 30</a>	596	0.9%	64,785	97.5%	-96.602	-7.489
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,947	4.4%	2,933	4.4%	0.021	0.001
<i>Influenza Vaccination in Prior 400 Days</i>	23,045	34.7%	23,011	34.6%	0.051	0.001
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,841	14.8%	9,987	15.0%	-0.220	-0.006
<i>Evidence of COVID Three Months Prior</i>	473	0.7%	473	0.7%	0.000	0.000
<i>Evidence of COVID Two Months Prior</i>	327	0.5%	324	0.5%	0.005	0.001
<i>Evidence of COVID One Month Prior</i>	1,398	2.1%	1,392	2.1%	0.009	0.001
Hospitalization Days -400 to -11	3,536	5.3%	3,493	5.3%	0.065	0.003
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	55,166	83.0%	55,163	83.0%	0.005	0.000
<i>COVID Severe Syndrome</i>	158	0.2%	153	0.2%	0.008	0.002
<i>Evidence of Influenza Three Days Prior</i>	52,575	79.1%	51,276	77.2%	1.955	0.047
<i>Influenza Diagnosis Days -3 to 0</i>	52,560	79.1%	51,233	77.1%	1.997	0.048
<i>Positive Flu Lab Days -3 to 0</i>	308	0.5%	357	0.5%	-0.074	-0.010
<i>Evidence of COVID Three Days Prior</i>	1,174	1.8%	1,199	1.8%	-0.038	-0.003
<i>COVID Diagnosis Days -3 to 0</i>	1,101	1.7%	1,079	1.6%	0.033	0.003
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	107	0.2%	149	0.2%	-0.063	-0.014
<a href="#">Influenza Testing in Prior Six Months</a>	41,070	61.8%	35,764	53.8%	7.985	0.162
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.0	16.7	13.9	17.8	0.107	0.006
<i>encounters</i>	0.4	1.1	0.4	1.7	-0.009	-0.006

**Table 1d. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.001	0.003
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.8	9.9	2.8	9.4	-0.036	-0.004
<i>Mean number of filled prescriptions</i>	21.3	25.4	21.2	27.0	0.129	0.005
Mean number of generics dispensed	7.0	5.9	6.7	5.8	0.330	0.056

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	59,010	100.0%	59,191	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	41.9	15.8	41.7	16.1	0.252	0.016
Age						
12-18 years	10,865	18.4%	10,968	18.5%	-0.118	-0.003
19-44 years	22,865	38.7%	23,443	39.6%	-0.858	-0.018
45-64 years	15,189	25.7%	14,687	24.8%	0.927	0.021
≥ 65 years	10,091	17.1%	10,093	17.1%	0.049	0.001
Sex						
Female	31,769	53.8%	31,808	53.7%	0.099	0.002
Male	27,241	46.2%	27,383	46.3%	-0.099	-0.002
Race <sup>4</sup>						
American Indian or Alaska Native	81	0.1%	79	0.1%	0.004	0.001
Asian	293	0.5%	318	0.5%	-0.041	-0.006
Black or African American	1,064	1.8%	1,024	1.7%	0.073	0.006
Multi-racial	202	0.3%	180	0.3%	0.038	0.007
Native Hawaiian or Other Pacific Islander	32	0.1%	34	0.1%	-0.003	-0.001
Unknown	45,523	77.1%	45,885	77.5%	-0.376	-0.009
White	11,815	20.0%	11,671	19.7%	0.305	0.008
Hispanic origin						
Yes	1,113	1.9%	1,437	2.4%	-0.542	-0.037
No	11,944	20.2%	11,812	20.0%	0.285	0.007
Unknown	45,953	77.9%	45,942	77.6%	0.257	0.006

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	19,121	32.4%	19,493	32.9%	-0.529	-0.011
Q2	15,515	26.3%	15,379	26.0%	0.310	0.007
Q3	14,551	24.7%	14,428	24.4%	0.283	0.007
Q4 (Most deprived)	9,721	16.5%	9,798	16.6%	-0.080	-0.002
Unknown	98	0.2%	92	0.2%	0.011	0.003
Year						
2018	438	0.7%	1,152	1.9%	-1.204	-0.105
2019	14,817	25.1%	14,580	24.6%	0.477	0.011
2020	25,452	43.1%	23,142	39.1%	4.035	0.082
2021	3,796	6.4%	3,692	6.2%	0.195	0.008
2022	14,204	24.1%	16,122	27.2%	-3.167	-0.073
2023	303	0.5%	503	0.8%	-0.336	-0.041
Season <sup>6</sup>						
Flu Season 2018	8,456	14.3%	8,266	14.0%	0.365	0.010
Flu Season 2019	31,397	53.2%	29,797	50.3%	2.866	0.057
Flu Season 2020	2,061	3.5%	2,003	3.4%	0.109	0.006
Flu Season 2021	7,260	12.3%	7,798	13.2%	-0.871	-0.026
Flu Season 2022	9,836	16.7%	11,327	19.1%	-2.468	-0.064
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	0.015	0.010
<i>Acute Myocardial Infarction</i>	298	0.5%	308	0.5%	-0.015	-0.002
<i>Alzheimers Disease</i>	129	0.2%	133	0.2%	-0.006	-0.001
<i>Anemia</i>	4,931	8.4%	4,927	8.3%	0.032	0.001
<i>Asthma</i>	5,317	9.0%	5,282	8.9%	0.087	0.003

**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	1,851	3.1%	1,826	3.1%	0.052	0.003
<i>Benign Prostatic Hyperplasia</i>	2,427	4.1%	2,457	4.2%	-0.038	-0.002
<i>Breast Cancer</i>	950	1.6%	960	1.6%	-0.012	-0.001
<i>Colorectal Cancer</i>	257	0.4%	229	0.4%	0.049	0.008
<i>Endometrial Cancer</i>	82	0.1%	89	0.2%	-0.011	-0.003
<i>Lung Cancer</i>	149	0.3%	140	0.2%	0.016	0.003
<i>Prostate Cancer</i>	616	1.0%	563	1.0%	0.093	0.009
<i>Urologic Cancer</i>	151	0.3%	159	0.3%	-0.013	-0.002
<i>Cataract</i>	4,782	8.1%	4,697	7.9%	0.168	0.006
<i>Chronic Kidney Disease</i>	2,558	4.3%	2,500	4.2%	0.111	0.005
<i>Chronic Obstructive Pulmonary Disorder</i>	4,055	6.9%	3,921	6.6%	0.247	0.010
<i>Depression/Bipolar/Other Mood Disorders</i>	8,780	14.9%	8,493	14.3%	0.530	0.015
<i>Diabetes</i>	6,375	10.8%	6,257	10.6%	0.232	0.008
<i>Glaucoma</i>	2,207	3.7%	2,208	3.7%	0.010	0.001
<i>Heart Failure and Nonischemic Heart Disease</i>	1,579	2.7%	1,513	2.6%	0.120	0.007
<i>Hepatic Disorders</i>	2,443	4.1%	2,427	4.1%	0.040	0.002
<i>Hip/Pelvic Fracture</i>	78	0.1%	79	0.1%	-0.001	-0.000
<i>Hyperlipidemia</i>	16,817	28.5%	16,716	28.2%	0.258	0.006
<i>Hypertension</i>	16,774	28.4%	16,397	27.7%	0.724	0.016
<i>Hypothyroidism</i>	6,475	11.0%	6,338	10.7%	0.265	0.009
<i>Ischemic Heart Disease</i>	4,069	6.9%	3,968	6.7%	0.192	0.008
<i>NonAlzheimers Dementia</i>	378	0.6%	345	0.6%	0.058	0.007
<i>Osteoporosis</i>	1,851	3.1%	1,827	3.1%	0.050	0.003
<i>Parkinsonism</i>	112	0.2%	117	0.2%	-0.008	-0.002
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,702	16.4%	9,453	16.0%	0.471	0.013

**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	876	1.5%	827	1.4%	0.087	0.007
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	412	0.7%	376	0.6%	0.063	0.008
Evidence of Any High Risk Marker	17,510	29.7%	17,409	29.4%	0.261	0.006
<i>High Risk Component: Blood Disorders</i>	17	0.0%	18	0.0%	-0.002	-0.001
<i>High Risk Component: Chronic Lung Disease</i>	468	0.8%	465	0.8%	0.007	0.001
<i>High Risk Component: Immunocompromised</i>	6,072	10.3%	5,942	10.0%	0.251	0.008
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,170	2.0%	1,210	2.0%	-0.062	-0.004
<i>High Risk Component: Obesity</i>	10,750	18.2%	10,564	17.8%	0.370	0.010
<i>High Risk Component: Tobacco or Nicotine Use</i>	6,493	11.0%	6,418	10.8%	0.160	0.005
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	11,759	19.9%	11,464	19.4%	0.559	0.014
Baloxavir Use Prior to Washout	232	0.4%	37	0.1%	0.331	0.069
Oseltamivir Use Prior to Washout	11,915	20.2%	11,625	19.6%	0.552	0.014
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,109	1.9%	1,175	2.0%	-0.106	-0.008
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	162	0.3%	174	0.3%	-0.019	-0.004
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>17</b>	<b>0.0%</b>	<b>3,273</b>	<b>5.5%</b>	<b>-5.501</b>	<b>-0.339</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	55,504	93.8%	NaN	NaN

**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	524	0.9%	55,451	93.7%	-92.793	-5.033
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,586	4.4%	2,497	4.2%	0.164	0.008
<i>Influenza Vaccination in Prior 400 Days</i>	20,324	34.4%	20,124	34.0%	0.443	0.009
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	7,915	13.4%	8,885	15.0%	-1.598	-0.046
<i>Evidence of COVID Three Months Prior</i>	431	0.7%	432	0.7%	0.001	0.000
<i>Evidence of COVID Two Months Prior</i>	302	0.5%	307	0.5%	-0.007	-0.001
<i>Evidence of COVID One Month Prior</i>	1,469	2.5%	1,469	2.5%	0.008	0.000
<i>Hospitalization Days -400 to -11</i>	3,148	5.3%	3,021	5.1%	0.231	0.010
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	59,010	100.0%	59,191	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	173	0.3%	173	0.3%	0.001	0.000
<a href="#">Evidence of Influenza Three Days Prior</a>	56,198	95.2%	54,801	92.6%	2.651	0.111
<a href="#">Influenza Diagnosis Days -3 to 0</a>	56,180	95.2%	54,757	92.5%	2.695	0.112
<i>Positive Flu Lab Days -3 to 0</i>	329	0.6%	372	0.6%	-0.071	-0.009
<i>Evidence of COVID Three Days Prior</i>	1,298	2.2%	1,314	2.2%	-0.020	-0.001
<i>COVID Diagnosis Days -3 to 0</i>	1,218	2.1%	1,186	2.0%	0.060	0.004
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	165	0.3%	-0.082	-0.017
<a href="#">Influenza Testing in Prior Six Months</a>	43,971	74.5%	38,315	64.7%	9.783	0.214
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	13.9	16.6	13.7	17.5	0.241	0.014
<i>encounters</i>	0.4	1.1	0.4	1.6	-0.010	-0.007

**Table 1e. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.003	0.011
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.6	8.9	2.7	9.0	-0.069	-0.008
<i>Mean number of filled prescriptions</i>	21.0	25.0	20.4	26.0	0.636	0.025
Mean number of generics dispensed	6.9	5.9	6.5	5.7	0.426	0.074

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	56,396	95.6%	56,396	95.3%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	41.6	15.8	41.6	16.1	0.025	0.002
Age						
12-18 years	10,517	18.6%	10,454	18.5%	0.112	0.003
19-44 years	22,130	39.2%	22,444	39.8%	-0.557	-0.011
45-64 years	14,391	25.5%	14,027	24.9%	0.645	0.015
≥ 65 years	9,358	16.6%	9,471	16.8%	-0.200	-0.005
Sex						
Female	30,241	53.6%	30,343	53.8%	-0.181	-0.004
Male	26,155	46.4%	26,053	46.2%	0.181	0.004
Race <sup>4</sup>						
American Indian or Alaska Native	75	0.1%	76	0.1%	-0.002	-0.000
Asian	285	0.5%	282	0.5%	0.005	0.001
Black or African American	982	1.7%	976	1.7%	0.011	0.001
Multi-racial	175	0.3%	177	0.3%	-0.004	-0.001
Native Hawaiian or Other Pacific Islander	31	0.1%	31	0.1%	0.000	0.000
Unknown	43,863	77.8%	43,837	77.7%	0.046	0.001
White	10,985	19.5%	11,017	19.5%	-0.057	-0.001
Hispanic origin						
Yes	1,030	1.8%	1,350	2.4%	-0.567	-0.039
No	11,100	19.7%	11,129	19.7%	-0.051	-0.001
Unknown	44,266	78.5%	43,917	77.9%	0.619	0.015

**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>ZCTA Social Deprivation Index Score, National Quartile<sup>5</sup></i>						
Q1 (Least deprived)	18,495	32.8%	18,509	32.8%	-0.025	-0.001
Q2	14,709	26.1%	14,709	26.1%	0.000	0.000
Q3	13,797	24.5%	13,812	24.5%	-0.027	-0.001
Q4 (Most deprived)	9,306	16.5%	9,280	16.5%	0.046	0.001
Unknown	85	0.2%	85	0.2%	0.000	0.000
<i>Year</i>						
2018	423	0.8%	1,125	2.0%	-1.245	-0.107
2019	13,975	24.8%	14,302	25.4%	-0.580	-0.013
2020	23,962	42.5%	22,848	40.5%	1.975	0.040
2021	3,688	6.5%	3,490	6.2%	0.351	0.014
2022	14,047	24.9%	14,172	25.1%	-0.222	-0.005
2023	301	0.5%	459	0.8%	-0.280	-0.034
<i>Season<sup>6</sup></i>						
Flu Season 2018	8,031	14.2%	8,057	14.3%	-0.046	-0.001
Flu Season 2019	29,523	52.3%	29,427	52.2%	0.170	0.003
Flu Season 2020	1,941	3.4%	1,957	3.5%	-0.028	-0.002
Flu Season 2021	7,137	12.7%	7,227	12.8%	-0.160	-0.005
Flu Season 2022	9,764	17.3%	9,728	17.2%	0.064	0.002
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>						
	0.7	1.5	0.7	1.4	0.001	0.000
<i>Acute Myocardial Infarction</i>	273	0.5%	272	0.5%	0.002	0.000



**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Alzheimers Disease</i>	122	0.2%	115	0.2%	0.012	0.003
<i>Anemia</i>	4,615	8.2%	4,608	8.2%	0.012	0.000
<i>Asthma</i>	5,017	8.9%	4,999	8.9%	0.032	0.001
<i>Atrial Fibrillation or Flutter</i>	1,716	3.0%	1,723	3.1%	-0.012	-0.001
<i>Benign Prostatic Hyperplasia</i>	2,271	4.0%	2,281	4.0%	-0.018	-0.001
<i>Breast Cancer</i>	880	1.6%	897	1.6%	-0.030	-0.002
<i>Colorectal Cancer</i>	213	0.4%	221	0.4%	-0.014	-0.002
<i>Endometrial Cancer</i>	74	0.1%	75	0.1%	-0.002	-0.000
<i>Lung Cancer</i>	131	0.2%	132	0.2%	-0.002	-0.000
<i>Prostate Cancer</i>	556	1.0%	531	0.9%	0.044	0.005
<i>Urologic Cancer</i>	142	0.3%	148	0.3%	-0.011	-0.002
<i>Cataract</i>	4,452	7.9%	4,415	7.8%	0.066	0.002
<i>Chronic Kidney Disease</i>	2,355	4.2%	2,350	4.2%	0.009	0.000
<i>Chronic Obstructive Pulmonary Disorder</i>	3,707	6.6%	3,704	6.6%	0.005	0.000
<i>Depression/Bipolar/Other Mood Disorders</i>	8,186	14.5%	8,167	14.5%	0.034	0.001
<i>Diabetes</i>	5,916	10.5%	5,898	10.5%	0.032	0.001
<i>Glaucoma</i>	2,064	3.7%	2,061	3.7%	0.005	0.000
<i>Heart Failure and Nonischemic Heart Disease</i>	1,428	2.5%	1,425	2.5%	0.005	0.000
<i>Hepatic Disorders</i>	2,308	4.1%	2,297	4.1%	0.020	0.001
<i>Hip/Pelvic Fracture</i>	65	0.1%	68	0.1%	-0.005	-0.002
<i>Hyperlipidemia</i>	15,782	28.0%	15,773	28.0%	0.016	0.000
<i>Hypertension</i>	15,591	27.6%	15,586	27.6%	0.009	0.000
<i>Hypothyroidism</i>	6,022	10.7%	6,030	10.7%	-0.014	-0.000
<i>Ischemic Heart Disease</i>	3,765	6.7%	3,744	6.6%	0.037	0.001

**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>NonAlzheimers Dementia</i>	334	0.6%	311	0.6%	0.041	0.005
<i>Osteoporosis</i>	1,692	3.0%	1,705	3.0%	-0.023	-0.001
<i>Parkinsonism</i>	104	0.2%	106	0.2%	-0.004	-0.001
<i>Rheumatoid Arthritis/Osteoarthritis</i>	8,977	15.9%	8,969	15.9%	0.014	0.000
<i>Stroke/Transient Ischemic Attack</i>	789	1.4%	780	1.4%	0.016	0.001
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	357	0.6%	350	0.6%	0.012	0.002
Evidence of Any High Risk Marker	16,400	29.1%	16,496	29.3%	-0.170	-0.004
<i>High Risk Component: Blood Disorders</i>	14	0.0%	15	0.0%	-0.002	-0.001
<i>High Risk Component: Chronic Lung Disease</i>	430	0.8%	433	0.8%	-0.005	-0.001
<i>High Risk Component: Immunocompromised</i>	5,655	10.0%	5,636	10.0%	0.034	0.001
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,099	1.9%	1,102	2.0%	-0.005	-0.000
<i>High Risk Component: Obesity</i>	10,075	17.9%	10,042	17.8%	0.059	0.002
<i>High Risk Component: Tobacco or Nicotine Use</i>	6,075	10.8%	6,064	10.8%	0.020	0.001
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	11,050	19.6%	11,076	19.6%	-0.046	-0.001
Baloxavir Use Prior to Washout	227	0.4%	32	0.1%	0.346	0.072
Oseltamivir Use Prior to Washout	11,202	19.9%	11,225	19.9%	-0.041	-0.001
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,049	1.9%	1,155	2.0%	-0.188	-0.014
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN

**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Baloxavir		Oseltamivir		Covariate Balance	
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Absolute Difference	Standardized Difference
Aspirin or salicylate-containing medicines	146	0.3%	159	0.3%	-0.023	-0.004
Oseltamivir Days Supply ≥ 7 Days 0 to 7	17	0.0%	3,111	5.5%	-5.486	-0.339
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	52,882	93.8%	NaN	NaN
Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30	493	0.9%	52,831	93.7%	-92.804	-5.037
<b>Other Health Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,384	4.2%	2,367	4.2%	0.030	0.002
<i>Influenza Vaccination in Prior 400 Days</i>	19,171	34.0%	19,140	33.9%	0.055	0.001
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	7,797	13.8%	7,838	13.9%	-0.073	-0.002
<i>Evidence of COVID Three Months Prior</i>	397	0.7%	401	0.7%	-0.007	-0.001
<i>Evidence of COVID Two Months Prior</i>	286	0.5%	282	0.5%	0.007	0.001
<i>Evidence of COVID One Month Prior</i>	1,391	2.5%	1,387	2.5%	0.007	0.000
Hospitalization Days -400 to -11	2,885	5.1%	2,883	5.1%	0.004	0.000
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	56,396	100.0%	56,396	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	162	0.3%	159	0.3%	0.005	0.001
Evidence of Influenza Three Days Prior	53,738	95.3%	52,249	92.6%	2.640	0.111
Influenza Diagnosis Days -3 to 0	53,721	95.3%	52,207	92.6%	2.685	0.112
Positive Flu Lab Days -3 to 0	312	0.6%	350	0.6%	-0.067	-0.009
Evidence of COVID Three Days Prior	1,228	2.2%	1,241	2.2%	-0.023	-0.002
COVID Diagnosis Days -3 to 0	1,152	2.0%	1,118	2.0%	0.060	0.004
IP Legacy COVID Diagnosis Days -3 to 0	0	0.0%	0	0.0%	NaN	NaN
Positive COVID Lab Days -3 to 0	109	0.2%	157	0.3%	-0.085	-0.018

**Table 1f. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Influenza Testing in Prior Six Months	41,956	74.4%	36,692	65.1%	9.334	0.204
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	13.6	16.2	13.7	17.5	-0.007	-0.000
<i>encounters</i>	0.4	1.1	0.4	1.6	-0.010	-0.007
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	-0.000	-0.002
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.6	8.5	2.6	7.8	-0.029	-0.003
<i>Mean number of filled prescriptions</i>	20.4	24.3	20.3	26.0	0.060	0.002
Mean number of generics dispensed	6.8	5.8	6.5	5.7	0.312	0.054

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	13,202	100.0%	721,471	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
<i>Age (years)</i>	15.4	2.0	14.9	2.0	0.479	0.243
Age						
12-18 years	13,202	100.0%	721,471	100.0%	0.000	NaN
Sex						
Female	6,322	47.9%	346,513	48.0%	-0.142	-0.003
Male	6,880	52.1%	374,958	52.0%	0.142	0.003
Race <sup>4</sup>						
American Indian or Alaska Native	*****	*****	5,850	0.8%	-0.690	-0.101
Asian	43	0.3%	15,181	2.1%	-1.778	-0.163
Black or African American	166	1.3%	62,199	8.6%	-7.364	-0.345
Multi-racial	57	0.4%	4,707	0.7%	-0.221	-0.030
Native Hawaiian or Other Pacific Islander	*****	*****	2,111	0.3%	-0.255	-0.063
Unknown	11,947	90.5%	449,703	62.3%	28.162	0.703
White	968	7.3%	181,720	25.2%	-17.855	-0.499
Hispanic origin						
Yes	658	5.0%	174,796	24.2%	-19.244	-0.566
No	1,010	7.7%	260,491	36.1%	-28.455	-0.733
Unknown	11,534	87.4%	286,184	39.7%	47.699	1.141
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	5,335	40.4%	146,905	20.4%	20.049	0.447
Q2	3,250	24.6%	149,412	20.7%	3.908	0.093
Q3	2,686	20.3%	181,448	25.1%	-4.804	-0.115

**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q4 (Most deprived)	1,900	14.4%	237,354	32.9%	-18.507	-0.446
Unknown	31	0.2%	674	0.1%	0.141	0.035
Year						
2018	83	0.6%	26,358	3.7%	-3.025	-0.210
2019	3,570	27.0%	374,233	51.9%	-24.829	-0.525
2020	4,717	35.7%	240,624	33.4%	2.378	0.050
2021	837	6.3%	10,608	1.5%	4.870	0.253
2022	3,952	29.9%	67,405	9.3%	20.592	0.537
2023	43	0.3%	2,243	0.3%	0.015	0.003
Season <sup>6</sup>						
Flu Season 2018	2,205	16.7%	308,303	42.7%	-26.031	-0.594
Flu Season 2019	6,092	46.1%	329,868	45.7%	0.423	0.008
Flu Season 2020	182	1.4%	4,047	0.6%	0.818	0.084
Flu Season 2021	2,046	15.5%	27,633	3.8%	11.668	0.403
Flu Season 2022	2,677	20.3%	51,620	7.2%	13.122	0.389
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.3	0.6	0.3	0.7	-0.047	-0.074
<i>Acute Myocardial Infarction</i>	*****	*****	47	0.0%	0.001	0.001
<i>Alzheimers Disease</i>	0	0.0%	*****	*****	NaN	NaN
<i>Anemia</i>	214	1.6%	16,401	2.3%	-0.652	-0.047
<i>Asthma</i>	1,280	9.7%	90,092	12.5%	-2.792	-0.089
<i>Atrial Fibrillation or Flutter</i>	*****	*****	112	0.0%	-0.000	-0.000
<i>Benign Prostatic Hyperplasia</i>	*****	*****	24	0.0%	0.004	0.006
<i>Breast Cancer</i>	0	0.0%	30	0.0%	NaN	NaN

**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Colorectal Cancer</i>	0	0.0%	22	0.0%	NaN	NaN
<i>Endometrial Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Lung Cancer</i>	0	0.0%	34	0.0%	NaN	NaN
<i>Prostate Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Urologic Cancer</i>	*****	*****	102	0.0%	0.001	0.001
<i>Cataract</i>	12	0.1%	744	0.1%	-0.012	-0.004
<i>Chronic Kidney Disease</i>	25	0.2%	1,961	0.3%	-0.082	-0.017
<i>Chronic Obstructive Pulmonary Disorder</i>	171	1.3%	12,956	1.8%	-0.501	-0.041
<i>Depression/Bipolar/Other Mood Disorders</i>	1,161	8.8%	68,359	9.5%	-0.681	-0.024
<i>Diabetes</i>	98	0.7%	6,860	1.0%	-0.209	-0.023
<i>Glaucoma</i>	50	0.4%	4,582	0.6%	-0.256	-0.036
<i>Heart Failure and Nonischemic Heart Disease</i>	*****	*****	668	0.1%	-0.055	-0.021
<i>Hepatic Disorders</i>	66	0.5%	4,695	0.7%	-0.151	-0.020
<i>Hip/Pelvic Fracture</i>	22	0.2%	801	0.1%	0.056	0.015
<i>Hyperlipidemia</i>	189	1.4%	14,534	2.0%	-0.583	-0.045
<i>Hypertension</i>	63	0.5%	6,312	0.9%	-0.398	-0.049
<i>Hypothyroidism</i>	128	1.0%	7,206	1.0%	-0.029	-0.003
<i>Ischemic Heart Disease</i>	*****	*****	174	0.0%	0.036	0.018
<i>NonAlzheimers Dementia</i>	*****	*****	161	0.0%	-0.007	-0.005
<i>Osteoporosis</i>	*****	*****	275	0.0%	0.030	0.013
<i>Parkinsons Disease or Secondary Parkinsonism</i>	0	0.0%	15	0.0%	NaN	NaN
<i>Rheumatoid Arthritis/Osteoarthritis</i>	107	0.8%	3,508	0.5%	0.324	0.040
<i>Stroke/Transient Ischemic Attack</i>	*****	*****	560	0.1%	-0.017	-0.006
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	19	0.1%	1,860	0.3%	-0.114	-0.025

**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Evidence of Any High Risk Marker</i>	873	6.6%	73,146	10.1%	-3.526	-0.128
<i>High Risk Component: Blood Disorders</i>	0	0.0%	649	0.1%	NaN	NaN
<i>High Risk Component: Chronic Lung Disease</i>	38	0.3%	2,094	0.3%	-0.002	-0.000
<i>High Risk Component: Immunocompromised</i>	394	3.0%	18,701	2.6%	0.392	0.024
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	369	2.8%	30,010	4.2%	-1.365	-0.075
<i>High Risk Component: Obesity</i>	301	2.3%	29,767	4.1%	-1.846	-0.105
<i>Use</i>	113	0.9%	9,336	1.3%	-0.438	-0.042
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	3,794	28.7%	157,322	21.8%	6.932	0.160
<i>Baloxavir Use Prior to Washout</i>	100	0.8%	166	0.0%	0.734	0.118
<i>Oseltamivir Use Prior to Washout</i>	3,851	29.2%	159,163	22.1%	7.109	0.163
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	500	3.8%	39,308	5.4%	-1.661	-0.079
<i>Baloxavir Use Days -183 to -1</i>	19	0.1%	31	0.0%	0.140	0.051
<i>Oseltamivir Use Days -183 to -1</i>	48	0.4%	2,786	0.4%	-0.023	-0.004
<i>Aspirin or salicylate-containing medicines</i>	*****	*****	286	0.0%	-0.024	-0.015
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	*****	*****	92,606	12.8%	-12.798	-0.540
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	588,224	81.5%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	106	0.8%	587,619	81.4%	-80.644	-2.860
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	22	0.2%	1,133	0.2%	0.010	0.002



**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Influenza Vaccination in Prior 400 Days</i>	4,129	31.3%	171,928	23.8%	7.445	0.167
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	1,857	14.1%	32,224	4.5%	9.600	0.336
<i>Evidence of COVID Three Months Prior</i>	75	0.6%	1,163	0.2%	0.407	0.068
<i>Evidence of COVID Two Months Prior</i>	53	0.4%	743	0.1%	0.298	0.060
<i>Evidence of COVID One Month Prior</i>	88	0.7%	1,798	0.2%	0.417	0.062
Hospitalization Days -400 to -11	213	1.6%	14,990	2.1%	-0.464	-0.035
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,893	82.5%	536,827	74.4%	8.103	0.198
<i>COVID Severe Syndrome</i>	*****	*****	105	0.0%	0.001	0.000
<i>Evidence of Influenza Three Days Prior</i>	10,623	80.5%	502,832	69.7%	10.770	0.251
<i>Influenza Diagnosis Days -3 to 0</i>	10,622	80.5%	502,734	69.7%	10.776	0.251
Positive Flu Lab Days -3 to 0	42	0.3%	733	0.1%	0.217	0.047
<i>Influenza Testing in Prior Six Months</i>	8,616	65.3%	353,377	49.0%	16.283	0.334
<i>Evidence of COVID Three Days Prior</i>	59	0.4%	1,434	0.2%	0.248	0.044
<i>COVID Diagnosis Days -3 to 0</i>	56	0.4%	1,360	0.2%	0.236	0.043
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	*****	*****	93	0.0%	0.010	0.007
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	9.9	12.9	10.6	16.0	-0.704	-0.048
<i>Mean number of emergency room encounters</i>	0.2	0.7	0.5	1.0	-0.213	-0.247
<i>Mean number of inpatient hospital encounters</i>	0.0	0.2	0.0	0.3	-0.008	-0.037
<i>Mean number of non-acute institutional encounters</i>	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.1	11.9	5.5	27.5	-3.433	-0.162
<i>Mean number of filled prescriptions</i>	8.2	12.3	9.1	15.2	-0.956	-0.069

**Table 1g. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of generics dispensed	3.7	3.6	3.9	4.0	-0.192	-0.051

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance					
	Baloxavir	Oseltamivir	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Absolute Difference	Standardized Difference
Unique patients	13,199	100.0%	13,199	1.8%	13,199	100.0%	N/A	N/A
<b>Demographic Characteristics</b>								
Age (years)	15.4	2.0	15.4	2.0	15.4	2.0	-0.013	-0.006
Age								
12-18 years	13,199	100.0%	13,199	100.0%	13,199	100.0%	0.000	NaN
Sex								
Female	6,320	47.9%	6,391	48.4%	6,391	48.4%	-0.538	-0.011
Male	6,879	52.1%	6,808	51.6%	6,808	51.6%	0.538	0.011
Race <sup>4</sup>								
American Indian or Alaska Native	*****	*****	*****	*****	*****	*****	-0.015	-0.004
Asian	43	0.3%	36	0.3%	36	0.3%	0.053	0.010
Black or African American	166	1.3%	167	1.3%	167	1.3%	-0.008	-0.001
Multi-racial	57	0.4%	54	0.4%	54	0.4%	0.023	0.004
Native Hawaiian or Other Pacific Islander	*****	*****	*****	*****	*****	*****	0.015	0.009
Unknown	11,944	90.5%	11,918	90.3%	11,918	90.3%	0.197	0.007
White	968	7.3%	1,003	7.6%	1,003	7.6%	-0.265	-0.010
Hispanic origin								
Yes	658	5.0%	727	5.5%	727	5.5%	-0.523	-0.023
No	1,010	7.7%	1,046	7.9%	1,046	7.9%	-0.273	-0.010
Unknown	11,531	87.4%	11,426	86.6%	11,426	86.6%	0.796	0.024
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>								
Q1 (Least deprived)	5,335	40.4%	5,397	40.9%	5,397	40.9%	-0.470	-0.010
Q2	3,248	24.6%	3,165	24.0%	3,165	24.0%	0.629	0.015
Q3	2,685	20.3%	2,702	20.5%	2,702	20.5%	-0.129	-0.003

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q4 (Most deprived)	1,900	14.4%	1,907	14.4%	-0.053	-0.002
Unknown	31	0.2%	28	0.2%	0.023	0.005
Year						
2018	83	0.6%	232	1.8%	-1.129	-0.104
2019	3,569	27.0%	3,726	28.2%	-1.189	-0.027
2020	4,717	35.7%	4,535	34.4%	1.379	0.029
2021	837	6.3%	834	6.3%	0.023	0.001
2022	3,950	29.9%	3,819	28.9%	0.992	0.022
2023	43	0.3%	53	0.4%	-0.076	-0.013
Season <sup>6</sup>						
Flu Season 2018	2,204	16.7%	2,216	16.8%	-0.091	-0.002
Flu Season 2019	6,092	46.2%	6,192	46.9%	-0.758	-0.015
Flu Season 2020	182	1.4%	187	1.4%	-0.038	-0.003
Flu Season 2021	2,044	15.5%	1,954	14.8%	0.682	0.019
Flu Season 2022	2,677	20.3%	2,650	20.1%	0.205	0.005
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.3	0.6	0.3	0.6	-0.011	-0.018
<i>Acute Myocardial Infarction</i>	*****	*****	0	0.0%	NaN	NaN
<i>Alzheimers Disease</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Anemia</i>	213	1.6%	219	1.7%	-0.045	-0.004
<i>Asthma</i>	1,280	9.7%	1,311	9.9%	-0.235	-0.008
<i>Atrial Fibrillation or Flutter</i>	*****	*****	0	0.0%	NaN	NaN
<i>Benign Prostatic Hyperplasia</i>	*****	*****	0	0.0%	NaN	NaN
<i>Breast Cancer</i>	0	0.0%	0	0.0%	NaN	NaN

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Colorectal Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Endometrial Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Lung Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Prostate Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Urologic Cancer</i>	*****	*****	0	0.0%	NaN	NaN
<i>Cataract</i>	12	0.1%	*****	*****	0.023	0.008
<i>Chronic Kidney Disease</i>	25	0.2%	30	0.2%	-0.038	-0.008
<i>Chronic Obstructive Pulmonary Disorder</i>	171	1.3%	165	1.3%	0.045	0.004
<i>Depression/Bipolar/Other Mood Disorders</i>	1,159	8.8%	1,177	8.9%	-0.136	-0.005
<i>Diabetes</i>	98	0.7%	81	0.6%	0.129	0.016
<i>Glaucoma</i>	50	0.4%	41	0.3%	0.068	0.012
<i>Heart Failure and Nonischemic Heart Disease</i>	*****	*****	*****	*****	-0.038	-0.016
<i>Hepatic Disorders</i>	64	0.5%	70	0.5%	-0.045	-0.006
<i>Hip/Pelvic Fracture</i>	22	0.2%	20	0.2%	0.015	0.004
<i>Hyperlipidemia</i>	187	1.4%	185	1.4%	0.015	0.001
<i>Hypertension</i>	63	0.5%	64	0.5%	-0.008	-0.001
<i>Hypothyroidism</i>	127	1.0%	127	1.0%	0.000	0.000
<i>Ischemic Heart Disease</i>	*****	*****	*****	*****	0.008	0.003
<i>NonAlzheimers Dementia</i>	*****	*****	0	0.0%	NaN	NaN
<i>Osteoporosis</i>	*****	*****	*****	*****	0.000	0.000
<i>Parkinsons Disease or Secondary Parkinsonism</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Rheumatoid Arthritis/Osteoarthritis</i>	107	0.8%	100	0.8%	0.053	0.006
<i>Stroke/Transient Ischemic Attack</i>	*****	*****	*****	*****	0.015	0.007
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	19	0.1%	21	0.2%	-0.015	-0.004

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Evidence of Any High Risk Marker	871	6.6%	912	6.9%	-0.311	-0.012
<i>High Risk Component: Blood Disorders</i>	0	0.0%	0	0.0%	NaN	NaN
<i>High Risk Component: Chronic Lung Disease</i>	38	0.3%	42	0.3%	-0.030	-0.006
<i>High Risk Component: Immunocompromised</i>	392	3.0%	390	3.0%	0.015	0.001
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	368	2.8%	366	2.8%	0.015	0.001
<i>High Risk Component: Obesity</i>	299	2.3%	321	2.4%	-0.167	-0.011
<i>Use</i>	113	0.9%	115	0.9%	-0.015	-0.002
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	3,794	28.7%	3,769	28.6%	0.189	0.004
Baloxavir Use Prior to Washout	100	0.8%	15	0.1%	0.644	0.098
Oseltamivir Use Prior to Washout	3,851	29.2%	3,831	29.0%	0.152	0.003
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	500	3.8%	520	3.9%	-0.152	-0.008
Baloxavir Use Days -183 to -1	19	0.1%	*****	*****	0.121	0.042
Oseltamivir Use Days -183 to -1	48	0.4%	32	0.2%	0.121	0.022
<i>Aspirin or salicylate-containing medicines</i>	*****	*****	*****	*****	-0.015	-0.012
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	*****	*****	1,534	11.6%	-11.584	-0.510
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	11,323	85.8%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	106	0.8%	11,306	85.7%	-84.855	-3.318
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	22	0.2%	23	0.2%	-0.008	-0.002

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Influenza Vaccination in Prior 400 Days</i>	4,127	31.3%	4,060	30.8%	0.508	0.011
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	1,856	14.1%	1,827	13.8%	0.220	0.006
<i>Evidence of COVID Three Months Prior</i>	75	0.6%	65	0.5%	0.076	0.010
<i>Evidence of COVID Two Months Prior</i>	53	0.4%	43	0.3%	0.076	0.013
<i>Evidence of COVID One Month Prior</i>	88	0.7%	94	0.7%	-0.045	-0.005
<i>Hospitalization Days -400 to -11</i>	213	1.6%	213	1.6%	0.000	0.000
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,890	82.5%	10,983	83.2%	-0.705	-0.019
<i>COVID Severe Syndrome</i>	*****	*****	*****	*****	-0.008	-0.006
<i>Evidence of Influenza Three Days Prior</i>	10,620	80.5%	10,450	79.2%	1.288	0.032
<i>Influenza Diagnosis Days -3 to 0</i>	10,619	80.5%	10,445	79.1%	1.318	0.033
<i>Positive Flu Lab Days -3 to 0</i>	42	0.3%	38	0.3%	0.030	0.006
<i>Influenza Testing in Prior Six Months</i>	8,613	65.3%	7,756	58.8%	6.493	0.134
<i>Evidence of COVID Three Days Prior</i>	59	0.4%	72	0.5%	-0.098	-0.014
<i>COVID Diagnosis Days -3 to 0</i>	56	0.4%	67	0.5%	-0.083	-0.012
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	*****	*****	*****	*****	-0.023	-0.012
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	9.9	12.9	9.9	15.1	0.014	0.001
<i>Mean number of emergency room encounters</i>	0.2	0.7	0.3	0.7	-0.008	-0.012
<i>Mean number of inpatient hospital encounters</i>	0.0	0.2	0.0	0.2	0.000	0.003
<i>Mean number of non-acute institutional encounters</i>	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.1	11.9	2.2	12.8	-0.138	-0.011
<i>Mean number of filled prescriptions</i>	8.2	12.2	8.4	13.6	-0.182	-0.014

**Table 1h. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of generics dispensed	3.7	3.5	3.5	3.6	0.193	0.054

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,019	100.0%	2,741,030	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
<i>Age (years)</i>	48.8	13.5	52.3	13.8	-3.517	-0.257
Age						
19-44 years	29,271	45.7%	1,122,827	41.0%	4.759	0.096
45-64 years	20,193	31.5%	744,482	27.2%	4.382	0.096
≥ 65 years	14,555	22.7%	873,721	31.9%	-9.140	-0.206
Sex						
Female	35,385	55.3%	1,691,014	61.7%	-6.420	-0.131
Male	28,634	44.7%	1,050,016	38.3%	6.420	0.131
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	14,666	0.5%	-0.393	-0.068
Asian	430	0.7%	71,825	2.6%	-1.949	-0.154
Black or African American	1,175	1.8%	179,506	6.5%	-4.713	-0.237
Multi-racial	208	0.3%	12,318	0.4%	-0.124	-0.020
Native Hawaiian or Other Pacific Islander	40	0.1%	5,323	0.2%	-0.132	-0.037
Unknown	46,510	72.7%	1,337,896	48.8%	23.840	0.503
White	15,565	24.3%	1,119,496	40.8%	-16.529	-0.358
Hispanic origin						
Yes	773	1.2%	167,565	6.1%	-4.906	-0.263
No	15,798	24.7%	1,303,415	47.6%	-22.875	-0.490
Unknown	47,448	74.1%	1,270,050	46.3%	27.781	0.592
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	715,077	26.1%	5.420	0.120

**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,098	26.7%	667,788	24.4%	2.345	0.054
Q3	15,990	25.0%	681,611	24.9%	0.110	0.003
Q4 (Most deprived)	10,661	16.7%	659,542	24.1%	-7.409	-0.185
Unknown	94	0.1%	3,401	0.1%	0.023	0.006
<b>Year</b>						
2018	527	0.8%	137,030	5.0%	-4.176	-0.250
2019	14,821	23.2%	1,120,868	40.9%	-17.741	-0.387
2020	27,204	42.5%	921,689	33.6%	8.868	0.183
2021	4,470	7.0%	79,371	2.9%	4.087	0.189
2022	16,598	25.9%	459,340	16.8%	9.169	0.225
2023	399	0.6%	22,732	0.8%	-0.206	-0.024
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	986,416	36.0%	-23.021	-0.556
Flu Season 2019	33,096	51.7%	1,168,594	42.6%	9.064	0.182
Flu Season 2020	2,715	4.2%	46,341	1.7%	2.550	0.151
Flu Season 2021	8,006	12.5%	181,114	6.6%	5.898	0.202
Flu Season 2022	11,901	18.6%	358,565	13.1%	5.508	0.151
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	1.3	2.1	-0.535	-0.281
<i>Acute Myocardial Infarction</i>	415	0.6%	27,306	1.0%	-0.348	-0.039
<i>Alzheimers Disease</i>	273	0.4%	54,576	2.0%	-1.565	-0.144
<i>Anemia</i>	6,887	10.8%	425,027	15.5%	-4.748	-0.141
<i>Asthma</i>	5,589	8.7%	302,530	11.0%	-2.307	-0.077
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	160,728	5.9%	-1.718	-0.079

**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	171,203	6.2%	-0.726	-0.031
<i>Breast Cancer</i>	1,350	2.1%	67,222	2.5%	-0.344	-0.023
<i>Colorectal Cancer</i>	341	0.5%	19,645	0.7%	-0.184	-0.023
<i>Endometrial Cancer</i>	108	0.2%	7,567	0.3%	-0.107	-0.023
<i>Lung Cancer</i>	215	0.3%	15,036	0.5%	-0.213	-0.032
<i>Prostate Cancer</i>	888	1.4%	43,210	1.6%	-0.189	-0.016
<i>Urologic Cancer</i>	212	0.3%	10,912	0.4%	-0.067	-0.011
<i>Cataract</i>	6,803	10.6%	385,696	14.1%	-3.445	-0.105
<i>Chronic Kidney Disease</i>	3,486	5.4%	239,298	8.7%	-3.285	-0.128
<i>Chronic Obstructive Pulmonary Disorder</i>	5,078	7.9%	329,155	12.0%	-4.076	-0.136
<i>Depression/Bipolar/Other Mood Disorders</i>	10,313	16.1%	574,433	21.0%	-4.848	-0.125
<i>Diabetes</i>	8,558	13.4%	524,494	19.1%	-5.767	-0.157
<i>Glaucoma</i>	3,109	4.9%	180,077	6.6%	-1.713	-0.074
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	170,901	6.2%	-2.700	-0.126
<i>Hepatic Disorders</i>	3,227	5.0%	178,986	6.5%	-1.489	-0.064
<i>Hip/Pelvic Fracture</i>	99	0.2%	7,869	0.3%	-0.132	-0.028
<i>Hyperlipidemia</i>	22,785	35.6%	1,098,880	40.1%	-4.499	-0.093
<i>Hypertension</i>	22,359	34.9%	1,159,969	42.3%	-7.393	-0.152
<i>Hypothyroidism</i>	9,004	14.1%	442,670	16.1%	-2.085	-0.058
<i>Ischemic Heart Disease</i>	5,721	8.9%	310,043	11.3%	-2.375	-0.079
<i>NonAlzheimers Dementia</i>	772	1.2%	133,828	4.9%	-3.677	-0.215
<i>Osteoporosis</i>	2,739	4.3%	167,955	6.1%	-1.849	-0.083
<i>Parkinsonism</i>	207	0.3%	24,526	0.9%	-0.571	-0.073
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,046	20.4%	681,671	24.9%	-4.491	-0.107
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	95,269	3.5%	-1.526	-0.094

**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	45,839	1.7%	-0.815	-0.073
<i>Evidence of Any High Risk Marker</i>	21,789	34.0%	1,107,103	40.4%	-6.355	-0.132
<i>High Risk Component: Blood Disorders</i>	22	0.0%	1,649	0.1%	-0.026	-0.012
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	32,755	1.2%	-0.084	-0.008
<i>High Risk Component: Immunocompromised</i>	7,957	12.4%	373,966	13.6%	-1.214	-0.036
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	128,590	4.7%	-2.758	-0.155
<i>High Risk Component: Obesity</i>	13,201	20.6%	586,355	21.4%	-0.771	-0.019
<i>Use</i>	8,253	12.9%	474,923	17.3%	-4.435	-0.124
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,560	19.6%	504,769	18.4%	1.204	0.031
<i>Baloxavir Use Prior to Washout</i>	370	0.6%	918	0.0%	0.544	0.099
<i>Oseltamivir Use Prior to Washout</i>	12,754	19.9%	510,851	18.6%	1.285	0.033
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	108,518	4.0%	-2.295	-0.139
<i>Baloxavir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Oseltamivir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Aspirin or salicylate-containing medicines</i>	224	0.3%	26,624	1.0%	-0.621	-0.077
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	43	0.1%	524,739	19.1%	-19.077	-0.684
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	2,186,943	79.8%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	616	1.0%	2,183,809	79.7%	-78.709	-2.688

**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	211,536	7.7%	-2.235	-0.090
<i>Influenza Vaccination in Prior 400 Days</i>	23,166	36.2%	1,047,935	38.2%	-2.045	-0.042
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	283,049	10.3%	5.164	0.154
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	12,033	0.4%	0.334	0.043
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	9,533	0.3%	0.193	0.029
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	32,360	1.2%	1.189	0.090
<i>Hospitalization Days -400 to -11</i>	4,030	6.3%	269,601	9.8%	-3.541	-0.130
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	75.4%	1,641,937	59.9%	15.543	0.337
<i>COVID Severe Syndrome</i>	171	0.3%	4,746	0.2%	0.094	0.020
<i>Evidence of Influenza Three Days Prior</i>	45,745	71.5%	1,492,293	54.4%	17.013	0.358
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	71.4%	1,491,488	54.4%	17.015	0.358
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	7,694	0.3%	0.169	0.028
<i>Influenza Testing in Prior Six Months</i>	35,496	55.4%	1,005,701	36.7%	18.755	0.383
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	25,433	0.9%	1.017	0.086
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	23,800	0.9%	0.956	0.083
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	2,237	0.1%	0.095	0.026
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	17.9	23.5	-2.883	-0.139
<i>encounters</i>	0.4	1.2	0.7	1.8	-0.314	-0.205
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.5	-0.057	-0.129

**Table 1i. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	8.7	28.5	-5.379	-0.249
Mean number of filled prescriptions	24.9	28.1	34.9	41.9	-9.911	-0.278
Mean number of generics dispensed	7.9	6.2	9.0	6.8	-1.113	-0.172

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,019	100.0%	64,019	2.3%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.8	13.9	0.008	0.001
Age						
19-44 years	29,271	45.7%	29,595	46.2%	-0.506	-0.010
45-64 years	20,193	31.5%	19,823	31.0%	0.578	0.012
≥ 65 years	14,555	22.7%	14,601	22.8%	-0.072	-0.002
Sex						
Female	35,385	55.3%	35,295	55.1%	0.141	0.003
Male	28,634	44.7%	28,724	44.9%	-0.141	-0.003
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	81	0.1%	0.016	0.004
Asian	430	0.7%	429	0.7%	0.002	0.000
Black or African American	1,175	1.8%	1,179	1.8%	-0.006	-0.000
Multi-racial	208	0.3%	200	0.3%	0.012	0.002
Native Hawaiian or Other Pacific Islander	40	0.1%	44	0.1%	-0.006	-0.002
Unknown	46,510	72.7%	46,586	72.8%	-0.119	-0.003
White	15,565	24.3%	15,500	24.2%	0.102	0.002
Hispanic origin						
Yes	773	1.2%	1,210	1.9%	-0.683	-0.055
No	15,798	24.7%	15,766	24.6%	0.050	0.001
Unknown	47,448	74.1%	47,043	73.5%	0.633	0.014
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	20,119	31.4%	0.081	0.002

**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,098	26.7%	17,198	26.9%	-0.156	-0.004
Q3	15,990	25.0%	15,885	24.8%	0.164	0.004
Q4 (Most deprived)	10,661	16.7%	10,721	16.7%	-0.094	-0.003
Unknown	94	0.1%	95	0.1%	-0.002	-0.000
<b>Year</b>						
2018	527	0.8%	1,265	2.0%	-1.153	-0.098
2019	14,821	23.2%	15,187	23.7%	-0.572	-0.013
2020	27,204	42.5%	26,321	41.1%	1.379	0.028
2021	4,470	7.0%	4,025	6.3%	0.695	0.028
2022	16,598	25.9%	16,674	26.0%	-0.119	-0.003
2023	399	0.6%	547	0.9%	-0.231	-0.027
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	8,363	13.1%	-0.097	-0.003
Flu Season 2019	33,096	51.7%	33,276	52.0%	-0.281	-0.006
Flu Season 2020	2,715	4.2%	2,590	4.0%	0.195	0.010
Flu Season 2021	8,006	12.5%	7,910	12.4%	0.150	0.005
Flu Season 2022	11,901	18.6%	11,880	18.6%	0.033	0.001
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.8	1.6	0.003	0.002
<i>Acute Myocardial Infarction</i>	415	0.6%	416	0.6%	-0.002	-0.000
<i>Alzheimers Disease</i>	273	0.4%	278	0.4%	-0.008	-0.001
<i>Anemia</i>	6,887	10.8%	6,813	10.6%	0.116	0.004
<i>Asthma</i>	5,589	8.7%	5,595	8.7%	-0.009	-0.000
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	2,677	4.2%	-0.036	-0.002



**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	3,640	5.7%	-0.166	-0.007
<i>Breast Cancer</i>	1,350	2.1%	1,321	2.1%	0.045	0.003
<i>Colorectal Cancer</i>	341	0.5%	328	0.5%	0.020	0.003
<i>Endometrial Cancer</i>	108	0.2%	118	0.2%	-0.016	-0.004
<i>Lung Cancer</i>	215	0.3%	211	0.3%	0.006	0.001
<i>Prostate Cancer</i>	888	1.4%	815	1.3%	0.114	0.010
<i>Urologic Cancer</i>	212	0.3%	222	0.3%	-0.016	-0.003
<i>Cataract</i>	6,803	10.6%	6,820	10.7%	-0.027	-0.001
<i>Chronic Kidney Disease</i>	3,486	5.4%	3,444	5.4%	0.066	0.003
<i>Chronic Obstructive Pulmonary Disorder</i>	5,078	7.9%	5,049	7.9%	0.045	0.002
<i>Depression/Bipolar/Other Mood Disorders</i>	10,313	16.1%	10,310	16.1%	0.005	0.000
<i>Diabetes</i>	8,558	13.4%	8,474	13.2%	0.131	0.004
<i>Glaucoma</i>	3,109	4.9%	3,156	4.9%	-0.073	-0.003
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	2,229	3.5%	0.053	0.003
<i>Hepatic Disorders</i>	3,227	5.0%	3,327	5.2%	-0.156	-0.007
<i>Hip/Pelvic Fracture</i>	99	0.2%	109	0.2%	-0.016	-0.004
<i>Hyperlipidemia</i>	22,785	35.6%	22,690	35.4%	0.148	0.003
<i>Hypertension</i>	22,359	34.9%	22,259	34.8%	0.156	0.003
<i>Hypothyroidism</i>	9,004	14.1%	8,934	14.0%	0.109	0.003
<i>Ischemic Heart Disease</i>	5,721	8.9%	5,682	8.9%	0.061	0.002
<i>NonAlzheimers Dementia</i>	772	1.2%	747	1.2%	0.039	0.004
<i>Osteoporosis</i>	2,739	4.3%	2,713	4.2%	0.041	0.002
<i>Parkinsonism</i>	207	0.3%	205	0.3%	0.003	0.001
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,046	20.4%	12,999	20.3%	0.073	0.002
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	1,184	1.8%	0.100	0.007

**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	555	0.9%	-0.009	-0.001
Evidence of Any High Risk Marker	21,789	34.0%	22,043	34.4%	-0.397	-0.008
<i>High Risk Component: Blood Disorders</i>	22	0.0%	18	0.0%	0.006	0.004
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	679	1.1%	0.050	0.005
<i>High Risk Component: Immunocompromised</i>	7,957	12.4%	7,897	12.3%	0.094	0.003
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	1,185	1.9%	0.083	0.006
<i>High Risk Component: Obesity</i>	13,201	20.6%	13,192	20.6%	0.014	0.000
<i>Use</i>	8,253	12.9%	8,341	13.0%	-0.137	-0.004
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,560	19.6%	12,408	19.4%	0.237	0.006
Baloxavir Use Prior to Washout	370	0.6%	50	0.1%	0.500	0.088
Oseltamivir Use Prior to Washout	12,754	19.9%	12,572	19.6%	0.284	0.007
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	1,302	2.0%	-0.370	-0.027
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.3%	249	0.4%	-0.039	-0.006
<a href="#">Oseltamivir Days Supply ≥ 7 Days 0 to 7</a>	<a href="#">43</a>	<a href="#">0.1%</a>	<a href="#">8,235</a>	<a href="#">12.9%</a>	<a href="#">-12.796</a>	<a href="#">-0.539</a>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	55,886	87.3%	NaN	NaN
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	<a href="#">616</a>	<a href="#">1.0%</a>	<a href="#">55,815</a>	<a href="#">87.2%</a>	<a href="#">-86.223</a>	<a href="#">-3.502</a>

**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	3,378	5.3%	0.206	0.009
<i>Influenza Vaccination in Prior 400 Days</i>	23,166	36.2%	23,156	36.2%	0.016	0.000
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	9,821	15.3%	0.150	0.004
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	485	0.8%	0.016	0.002
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	366	0.6%	-0.031	-0.004
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	1,468	2.3%	0.077	0.005
<i>Hospitalization Days -400 to -11</i>	4,030	6.3%	3,973	6.2%	0.089	0.004
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	75.4%	48,544	75.8%	-0.383	-0.009
<i>COVID Severe Syndrome</i>	171	0.3%	158	0.2%	0.020	0.004
<i>Evidence of Influenza Three Days Prior</i>	45,745	71.5%	44,728	69.9%	1.589	0.035
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	71.4%	44,703	69.8%	1.601	0.035
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	346	0.5%	-0.091	-0.013
<i>Influenza Testing in Prior Six Months</i>	35,496	55.4%	30,917	48.3%	7.153	0.144
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	1,241	1.9%	0.006	0.000
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	1,150	1.8%	0.028	0.002
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	154	0.2%	-0.064	-0.014
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	15.1	18.9	-0.043	-0.002
<i>encounters</i>	0.4	1.2	0.4	1.7	-0.006	-0.004
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.3	0.001	0.004

**Table 1j. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.3	10.3	0.030	0.003
<i>Mean number of filled prescriptions</i>	24.9	28.1	24.9	29.9	0.074	0.003
Mean number of generics dispensed	7.9	6.2	7.5	6.0	0.374	0.061

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	63,976	100.0%	55,784	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.3	13.9	0.498	0.036
Age						
19-44 years	29,249	45.7%	26,223	47.0%	-1.289	-0.026
45-64 years	20,179	31.5%	17,219	30.9%	0.674	0.015
$\geq 65$ years	14,548	22.7%	12,342	22.1%	0.615	0.015
Sex						
Female	35,363	55.3%	30,662	55.0%	0.310	0.006
Male	28,613	44.7%	25,122	45.0%	-0.310	-0.006
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	70	0.1%	0.017	0.005
Asian	430	0.7%	393	0.7%	-0.032	-0.004
Black or African American	1,175	1.8%	1,081	1.9%	-0.101	-0.007
Multi-racial	208	0.3%	182	0.3%	-0.001	-0.000
Native Hawaiian or Other Pacific Islander	40	0.1%	42	0.1%	-0.013	-0.005
Unknown	46,475	72.6%	40,936	73.4%	-0.739	-0.017
White	15,557	24.3%	13,080	23.4%	0.869	0.020
Hispanic origin						
Yes	773	1.2%	1,129	2.0%	-0.816	-0.065
No	15,790	24.7%	13,362	24.0%	0.728	0.017
Unknown	47,413	74.1%	41,293	74.0%	0.088	0.002
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,160	31.5%	17,244	30.9%	0.600	0.013

**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,081	26.7%	14,938	26.8%	-0.079	-0.002
Q3	15,976	25.0%	13,926	25.0%	0.008	0.000
Q4 (Most deprived)	10,660	16.7%	9,592	17.2%	-0.532	-0.014
Unknown	94	0.1%	83	0.1%	-0.002	-0.000
<b>Year</b>						
2018	527	0.8%	1,115	2.0%	-1.175	-0.100
2019	14,816	23.2%	13,088	23.5%	-0.303	-0.007
2020	27,190	42.5%	22,553	40.4%	2.071	0.042
2021	4,465	7.0%	3,586	6.4%	0.551	0.022
2022	16,579	25.9%	14,921	26.7%	-0.833	-0.019
2023	399	0.6%	521	0.9%	-0.310	-0.035
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,298	13.0%	7,246	13.0%	-0.019	-0.001
Flu Season 2019	33,080	51.7%	28,462	51.0%	0.685	0.014
Flu Season 2020	2,714	4.2%	2,369	4.2%	-0.005	-0.000
Flu Season 2021	7,994	12.5%	6,992	12.5%	-0.039	-0.001
Flu Season 2022	11,890	18.6%	10,715	19.2%	-0.623	-0.016
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.8	1.6	0.035	0.021
<i>Acute Myocardial Infarction</i>	415	0.6%	358	0.6%	0.007	0.001
<i>Alzheimers Disease</i>	273	0.4%	158	0.3%	0.143	0.024
<i>Anemia</i>	6,878	10.8%	5,792	10.4%	0.368	0.012
<i>Asthma</i>	5,587	8.7%	4,915	8.8%	-0.078	-0.003
<i>Atrial Fibrillation or Flutter</i>	2,651	4.1%	2,203	3.9%	0.195	0.010

**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,532	5.5%	3,115	5.6%	-0.063	-0.003
<i>Breast Cancer</i>	1,349	2.1%	1,121	2.0%	0.099	0.007
<i>Colorectal Cancer</i>	341	0.5%	276	0.5%	0.038	0.005
<i>Endometrial Cancer</i>	107	0.2%	102	0.2%	-0.016	-0.004
<i>Lung Cancer</i>	215	0.3%	166	0.3%	0.038	0.007
<i>Prostate Cancer</i>	888	1.4%	685	1.2%	0.160	0.014
<i>Urologic Cancer</i>	212	0.3%	179	0.3%	0.010	0.002
<i>Cataract</i>	6,797	10.6%	5,794	10.4%	0.238	0.008
<i>Chronic Kidney Disease</i>	3,485	5.4%	2,909	5.2%	0.233	0.010
<i>Chronic Obstructive Pulmonary Disorder</i>	5,077	7.9%	4,416	7.9%	0.020	0.001
<i>Depression/Bipolar/Other Mood Disorders</i>	10,306	16.1%	8,875	15.9%	0.200	0.005
<i>Diabetes</i>	8,554	13.4%	7,288	13.1%	0.306	0.009
<i>Glaucoma</i>	3,109	4.9%	2,696	4.8%	0.027	0.001
<i>Heart Failure and Nonischemic Heart Disease</i>	2,259	3.5%	1,845	3.3%	0.224	0.012
<i>Hepatic Disorders</i>	3,225	5.0%	2,909	5.2%	-0.174	-0.008
<i>Hip/Pelvic Fracture</i>	99	0.2%	86	0.2%	0.001	0.000
<i>Hyperlipidemia</i>	22,773	35.6%	19,634	35.2%	0.400	0.008
<i>Hypertension</i>	22,342	34.9%	19,108	34.3%	0.669	0.014
<i>Hypothyroidism</i>	8,995	14.1%	7,531	13.5%	0.560	0.016
<i>Ischemic Heart Disease</i>	5,715	8.9%	4,870	8.7%	0.203	0.007
<i>NonAlzheimers Dementia</i>	770	1.2%	419	0.8%	0.452	0.046
<i>Osteoporosis</i>	2,737	4.3%	2,275	4.1%	0.200	0.010
<i>Parkinsonism</i>	207	0.3%	149	0.3%	0.056	0.010
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,039	20.4%	11,182	20.0%	0.336	0.008
<i>Stroke/Transient Ischemic Attack</i>	1,246	1.9%	961	1.7%	0.225	0.017

**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	462	0.8%	0.030	0.003
Evidence of Any High Risk Marker	21,772	34.0%	19,279	34.6%	-0.529	-0.011
<i>High Risk Component: Blood Disorders</i>	22	0.0%	15	0.0%	0.007	0.004
<i>High Risk Component: Chronic Lung Disease</i>	710	1.1%	589	1.1%	0.054	0.005
<i>High Risk Component: Immunocompromised</i>	7,949	12.4%	6,777	12.1%	0.276	0.008
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,237	1.9%	933	1.7%	0.261	0.020
<i>High Risk Component: Obesity Use</i>	13,191	20.6%	11,651	20.9%	-0.267	-0.007
	8,244	12.9%	7,363	13.2%	-0.313	-0.009
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,546	19.6%	10,244	18.4%	1.247	0.032
Baloxavir Use Prior to Washout	369	0.6%	46	0.1%	0.494	0.086
Oseltamivir Use Prior to Washout	12,740	19.9%	10,377	18.6%	1.312	0.033
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,064	1.7%	1,006	1.8%	-0.140	-0.011
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.4%	218	0.4%	-0.041	-0.007
Oseltamivir Days Supply $\geq$ 7 Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Day 0	0	0.0%	54,884	98.4%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Days -30 to 30	609	1.0%	54,857	98.3%	-97.386	-8.579



**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,505	5.5%	2,902	5.2%	0.276	0.012
<i>Influenza Vaccination in Prior 400 Days</i>	23,149	36.2%	19,566	35.1%	1.109	0.023
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,900	15.5%	8,729	15.6%	-0.173	-0.005
<i>Evidence of COVID Three Months Prior</i>	494	0.8%	432	0.8%	-0.002	-0.000
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	333	0.6%	-0.056	-0.007
<i>Evidence of COVID One Month Prior</i>	1,516	2.4%	1,341	2.4%	-0.034	-0.002
<i>Hospitalization Days -400 to -11</i>	4,026	6.3%	3,366	6.0%	0.259	0.011
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,285	75.5%	45,934	82.3%	-6.869	-0.169
<i>COVID Severe Syndrome</i>	170	0.3%	148	0.3%	0.000	0.000
<i>Evidence of Influenza Three Days Prior</i>	45,731	71.5%	42,539	76.3%	-4.775	-0.109
<i>Influenza Diagnosis Days -3 to 0</i>	45,714	71.5%	42,515	76.2%	-4.759	-0.108
<i>Positive Flu Lab Days -3 to 0</i>	288	0.5%	335	0.6%	-0.150	-0.021
<i>Influenza Testing in Prior Six Months</i>	35,487	55.5%	29,247	52.4%	3.040	0.061
<i>Evidence of COVID Three Days Prior</i>	1,244	1.9%	1,145	2.1%	-0.108	-0.008
<i>COVID Diagnosis Days -3 to 0</i>	1,167	1.8%	1,057	1.9%	-0.071	-0.005
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	149	0.3%	-0.090	-0.019
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	14.9	18.2	0.171	0.010
<i>encounters</i>	0.4	1.2	0.4	1.8	-0.016	-0.010
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.3	0.004	0.011

**Table 1k. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.0	8.9	0.333	0.033
<i>Mean number of filled prescriptions</i>	24.9	28.1	24.0	28.4	0.959	0.034
Mean number of generics dispensed	7.9	6.2	7.4	6.0	0.435	0.071

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	54,832	85.7%	54,832	98.3%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.2	13.5	48.2	13.9	-0.002	-0.000
Age						
19-44 years	25,813	47.1%	25,958	47.3%	-0.264	-0.005
45-64 years	17,211	31.4%	16,960	30.9%	0.458	0.010
$\geq$ 65 years	11,808	21.5%	11,914	21.7%	-0.193	-0.005
Sex						
Female	30,065	54.8%	30,150	55.0%	-0.155	-0.003
Male	24,767	45.2%	24,682	45.0%	0.155	0.003
Race <sup>4</sup>						
American Indian or Alaska Native	68	0.1%	70	0.1%	-0.004	-0.001
Asian	372	0.7%	367	0.7%	0.009	0.001
Black or African American	1,027	1.9%	1,036	1.9%	-0.016	-0.001
Multi-racial	180	0.3%	177	0.3%	0.005	0.001
Native Hawaiian or Other Pacific Islander	38	0.1%	41	0.1%	-0.005	-0.002
Unknown	40,438	73.7%	40,477	73.8%	-0.071	-0.002
White	12,709	23.2%	12,664	23.1%	0.082	0.002
Hispanic origin						
Yes	682	1.2%	1,068	1.9%	-0.704	-0.056
No	12,936	23.6%	12,906	23.5%	0.055	0.001
Unknown	41,214	75.2%	40,858	74.5%	0.649	0.015
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	17,025	31.0%	17,063	31.1%	-0.069	-0.001

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	14,692	26.8%	14,688	26.8%	0.007	0.000
Q3	13,711	25.0%	13,699	25.0%	0.022	0.001
Q4 (Most deprived)	9,322	17.0%	9,303	17.0%	0.035	0.001
Unknown	77	0.1%	78	0.1%	-0.002	-0.000
<b>Year</b>						
2018	432	0.8%	1,104	2.0%	-1.226	-0.104
2019	12,748	23.2%	12,954	23.6%	-0.376	-0.009
2020	23,415	42.7%	22,367	40.8%	1.911	0.039
2021	3,793	6.9%	3,510	6.4%	0.516	0.021
2022	14,099	25.7%	14,392	26.2%	-0.534	-0.012
2023	345	0.6%	505	0.9%	-0.292	-0.033
<b>Season<sup>6</sup></b>						
Flu Season 2018	7,101	13.0%	7,157	13.1%	-0.102	-0.003
Flu Season 2019	28,517	52.0%	28,238	51.5%	0.509	0.010
Flu Season 2020	2,301	4.2%	2,311	4.2%	-0.018	-0.001
Flu Season 2021	6,771	12.3%	6,852	12.5%	-0.148	-0.004
Flu Season 2022	10,142	18.5%	10,274	18.7%	-0.241	-0.006
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.6	0.8	1.6	-0.002	-0.001
<i>Acute Myocardial Infarction</i>	339	0.6%	341	0.6%	-0.004	-0.000
<i>Alzheimers Disease</i>	141	0.3%	155	0.3%	-0.026	-0.005
<i>Anemia</i>	5,578	10.2%	5,614	10.2%	-0.066	-0.002
<i>Asthma</i>	4,769	8.7%	4,764	8.7%	0.009	0.000
<i>Atrial Fibrillation or Flutter</i>	2,123	3.9%	2,106	3.8%	0.031	0.002

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,987	5.4%	2,943	5.4%	0.080	0.004
<i>Breast Cancer</i>	1,068	1.9%	1,097	2.0%	-0.053	-0.004
<i>Colorectal Cancer</i>	259	0.5%	264	0.5%	-0.009	-0.001
<i>Endometrial Cancer</i>	92	0.2%	92	0.2%	0.000	0.000
<i>Lung Cancer</i>	154	0.3%	157	0.3%	-0.005	-0.001
<i>Prostate Cancer</i>	679	1.2%	673	1.2%	0.011	0.001
<i>Urologic Cancer</i>	175	0.3%	174	0.3%	0.002	0.000
<i>Cataract</i>	5,557	10.1%	5,583	10.2%	-0.047	-0.002
<i>Chronic Kidney Disease</i>	2,850	5.2%	2,819	5.1%	0.057	0.003
<i>Chronic Obstructive Pulmonary Disorder</i>	4,294	7.8%	4,262	7.8%	0.058	0.002
<i>Depression/Bipolar/Other Mood Disorders</i>	8,690	15.8%	8,688	15.8%	0.004	0.000
<i>Diabetes</i>	7,092	12.9%	7,067	12.9%	0.046	0.001
<i>Glaucoma</i>	2,565	4.7%	2,569	4.7%	-0.007	-0.000
<i>Heart Failure and Nonischemic Heart Disease</i>	1,752	3.2%	1,758	3.2%	-0.011	-0.001
<i>Hepatic Disorders</i>	2,772	5.1%	2,767	5.0%	0.009	0.000
<i>Hip/Pelvic Fracture</i>	77	0.1%	75	0.1%	0.004	0.001
<i>Hyperlipidemia</i>	19,117	34.9%	19,077	34.8%	0.073	0.002
<i>Hypertension</i>	18,728	34.2%	18,636	34.0%	0.168	0.004
<i>Hypothyroidism</i>	7,378	13.5%	7,359	13.4%	0.035	0.001
<i>Ischemic Heart Disease</i>	4,692	8.6%	4,679	8.5%	0.024	0.001
<i>NonAlzheimers Dementia</i>	411	0.7%	417	0.8%	-0.011	-0.001
<i>Osteoporosis</i>	2,208	4.0%	2,197	4.0%	0.020	0.001
<i>Parkinsonism</i>	144	0.3%	145	0.3%	-0.002	-0.000
<i>Rheumatoid Arthritis/Osteoarthritis</i>	10,852	19.8%	10,854	19.8%	-0.004	-0.000
<i>Stroke/Transient Ischemic Attack</i>	930	1.7%	929	1.7%	0.002	0.000

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	461	0.8%	444	0.8%	0.031	0.003
Evidence of Any High Risk Marker	18,529	33.8%	18,769	34.2%	-0.438	-0.009
<i>High Risk Component: Blood Disorders</i>	*****	*****	15	0.0%	-0.009	-0.006
<i>High Risk Component: Chronic Lung Disease</i>	561	1.0%	566	1.0%	-0.009	-0.001
<i>High Risk Component: Immunocompromised</i>	6,622	12.1%	6,600	12.0%	0.040	0.001
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	917	1.7%	918	1.7%	-0.002	-0.000
<i>High Risk Component: Obesity</i>	11,338	20.7%	11,371	20.7%	-0.060	-0.001
<i>Use</i>	7,095	12.9%	7,095	12.9%	0.000	0.000
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	10,283	18.8%	10,178	18.6%	0.191	0.005
Baloxavir Use Prior to Washout	296	0.5%	46	0.1%	0.456	0.082
Oseltamivir Use Prior to Washout	10,440	19.0%	10,307	18.8%	0.243	0.006
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	858	1.6%	997	1.8%	-0.254	-0.020
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	178	0.3%	209	0.4%	-0.057	-0.010
Oseltamivir Days Supply $\geq 7$ Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq 150$ mg Day 0	0	0.0%	53,958	98.4%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq 150$ mg Days -30 to 30	514	0.9%	53,931	98.4%	-97.419	-8.636

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,851	5.2%	2,825	5.2%	0.047	0.002
<i>Influenza Vaccination in Prior 400 Days</i>	19,273	35.1%	19,201	35.0%	0.131	0.003
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	8,292	15.1%	8,429	15.4%	-0.250	-0.007
<i>Evidence of COVID Three Months Prior</i>	403	0.7%	408	0.7%	-0.009	-0.001
<i>Evidence of COVID Two Months Prior</i>	305	0.6%	300	0.5%	0.009	0.001
<i>Evidence of COVID One Month Prior</i>	1,318	2.4%	1,310	2.4%	0.015	0.001
<i>Hospitalization Days -400 to -11</i>	3,288	6.0%	3,277	6.0%	0.020	0.001
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	44,956	82.0%	44,987	82.0%	-0.057	-0.001
<i>COVID Severe Syndrome</i>	146	0.3%	144	0.3%	0.004	0.001
<i>Evidence of Influenza Three Days Prior</i>	42,591	77.7%	41,664	76.0%	1.691	0.040
<i>Influenza Diagnosis Days -3 to 0</i>	42,575	77.6%	41,641	75.9%	1.703	0.040
<i>Positive Flu Lab Days -3 to 0</i>	273	0.5%	324	0.6%	-0.093	-0.013
<i>Influenza Testing in Prior Six Months</i>	32,969	60.1%	28,699	52.3%	7.787	0.157
<i>Evidence of COVID Three Days Prior</i>	1,111	2.0%	1,121	2.0%	-0.018	-0.001
<i>COVID Diagnosis Days -3 to 0</i>	1,042	1.9%	1,034	1.9%	0.015	0.001
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	101	0.2%	146	0.3%	-0.082	-0.017
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.7	17.0	14.7	17.9	-0.007	-0.000
<i>encounters</i>	0.4	1.1	0.4	1.8	-0.015	-0.010
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.000	0.000

**Table 11. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	2.9	8.7	3.0	8.9	-0.050	-0.006
<i>Mean number of filled prescriptions</i>	23.9	26.8	23.9	28.4	0.039	0.001
Mean number of generics dispensed	7.7	6.1	7.4	6.0	0.308	0.051

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	48,299	100.0%	48,544	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	47.8	13.5	47.7	13.9	0.101	0.007
Age						
19-44 years	23,019	47.7%	23,448	48.3%	-0.643	-0.013
45-64 years	15,189	31.4%	14,925	30.7%	0.703	0.015
≥ 65 years	10,091	20.9%	10,171	21.0%	-0.059	-0.001
Sex						
Female	26,678	55.2%	26,650	54.9%	0.336	0.007
Male	21,621	44.8%	21,894	45.1%	-0.336	-0.007
Race <sup>4</sup>						
American Indian or Alaska Native	69	0.1%	63	0.1%	0.013	0.004
Asian	262	0.5%	288	0.6%	-0.051	-0.007
Black or African American	946	2.0%	944	1.9%	0.014	0.001
Multi-racial	153	0.3%	166	0.3%	-0.025	-0.004
Native Hawaiian or Other Pacific Islander	30	0.1%	32	0.1%	-0.004	-0.002
Unknown	35,685	73.9%	36,161	74.5%	-0.608	-0.014
White	11,154	23.1%	10,890	22.4%	0.660	0.016
Hispanic origin						
Yes	569	1.2%	942	1.9%	-0.762	-0.062
No	11,283	23.4%	11,099	22.9%	0.497	0.012
Unknown	36,447	75.5%	36,503	75.2%	0.265	0.006
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	14,790	30.6%	14,848	30.6%	0.035	0.001

**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	12,894	26.7%	13,014	26.8%	-0.112	-0.003
Q3	12,381	25.6%	12,218	25.2%	0.465	0.011
Q4 (Most deprived)	8,159	16.9%	8,391	17.3%	-0.393	-0.010
Unknown	71	0.1%	72	0.1%	-0.001	-0.000
<b>Year</b>						
2018	372	0.8%	949	2.0%	-1.185	-0.102
2019	11,806	24.4%	11,569	23.8%	0.612	0.014
2020	21,502	44.5%	19,594	40.4%	4.155	0.084
2021	3,149	6.5%	3,020	6.2%	0.299	0.012
2022	11,199	23.2%	12,992	26.8%	-3.577	-0.083
2023	271	0.6%	420	0.9%	-0.304	-0.036
<b>Season<sup>6</sup></b>						
Flu Season 2018	6,599	13.7%	6,398	13.2%	0.483	0.014
Flu Season 2019	26,281	54.4%	24,927	51.3%	3.064	0.061
Flu Season 2020	1,920	4.0%	1,882	3.9%	0.098	0.005
Flu Season 2021	5,644	11.7%	6,103	12.6%	-0.887	-0.027
Flu Season 2022	7,855	16.3%	9,234	19.0%	-2.759	-0.072
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.6	0.8	1.6	0.010	0.006
<i>Acute Myocardial Infarction</i>	297	0.6%	289	0.6%	0.020	0.003
<i>Alzheimers Disease</i>	129	0.3%	123	0.3%	0.014	0.003
<i>Anemia</i>	4,763	9.9%	4,804	9.9%	-0.035	-0.001
<i>Asthma</i>	4,270	8.8%	4,335	8.9%	-0.089	-0.003
<i>Atrial Fibrillation or Flutter</i>	1,849	3.8%	1,824	3.8%	0.071	0.004

**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,427	5.0%	2,562	5.3%	-0.253	-0.011
<i>Breast Cancer</i>	950	2.0%	925	1.9%	0.061	0.004
<i>Colorectal Cancer</i>	257	0.5%	239	0.5%	0.040	0.006
<i>Endometrial Cancer</i>	82	0.2%	83	0.2%	-0.001	-0.000
<i>Lung Cancer</i>	149	0.3%	132	0.3%	0.037	0.007
<i>Prostate Cancer</i>	616	1.3%	570	1.2%	0.101	0.009
<i>Urologic Cancer</i>	151	0.3%	160	0.3%	-0.017	-0.003
<i>Cataract</i>	4,773	9.9%	4,778	9.8%	0.040	0.001
<i>Chronic Kidney Disease</i>	2,541	5.3%	2,473	5.1%	0.167	0.008
<i>Chronic Obstructive Pulmonary Disorder</i>	3,929	8.1%	3,877	8.0%	0.148	0.005
<i>Depression/Bipolar/Other Mood Disorders</i>	7,850	16.3%	7,774	16.0%	0.239	0.006
<i>Diabetes</i>	6,303	13.0%	6,229	12.8%	0.218	0.007
<i>Glaucoma</i>	2,169	4.5%	2,223	4.6%	-0.089	-0.004
<i>Heart Failure and Nonischemic Heart Disease</i>	1,576	3.3%	1,547	3.2%	0.076	0.004
<i>Hepatic Disorders</i>	2,388	4.9%	2,471	5.1%	-0.146	-0.007
<i>Hip/Pelvic Fracture</i>	64	0.1%	69	0.1%	-0.010	-0.003
<i>Hyperlipidemia</i>	16,667	34.5%	16,711	34.4%	0.084	0.002
<i>Hypertension</i>	16,734	34.6%	16,420	33.8%	0.822	0.017
<i>Hypothyroidism</i>	6,367	13.2%	6,399	13.2%	0.001	0.000
<i>Ischemic Heart Disease</i>	4,063	8.4%	4,069	8.4%	0.030	0.001
<i>NonAlzheimers Dementia</i>	377	0.8%	314	0.6%	0.134	0.016
<i>Osteoporosis</i>	1,845	3.8%	1,848	3.8%	0.013	0.001
<i>Parkinsonism</i>	112	0.2%	115	0.2%	-0.005	-0.001
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,618	19.9%	9,509	19.6%	0.325	0.008
<i>Stroke/Transient Ischemic Attack</i>	871	1.8%	774	1.6%	0.209	0.016

**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	396	0.8%	387	0.8%	0.023	0.003
Evidence of Any High Risk Marker	16,822	34.8%	16,872	34.8%	0.073	0.002
<i>High Risk Component: Blood Disorders</i>	17	0.0%	16	0.0%	0.002	0.001
<i>High Risk Component: Chronic Lung Disease</i>	440	0.9%	444	0.9%	-0.004	-0.000
<i>High Risk Component: Immunocompromised</i>	5,773	12.0%	5,775	11.9%	0.056	0.002
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	886	1.8%	826	1.7%	0.133	0.010
<i>High Risk Component: Obesity</i>	10,503	21.7%	10,391	21.4%	0.340	0.008
<i>Use</i>	6,408	13.3%	6,443	13.3%	-0.005	-0.000
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	8,752	18.1%	8,483	17.5%	0.646	0.017
Baloxavir Use Prior to Washout	190	0.4%	38	0.1%	0.315	0.065
Oseltamivir Use Prior to Washout	8,881	18.4%	8,591	17.7%	0.690	0.018
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	736	1.5%	791	1.6%	-0.106	-0.008
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	160	0.3%	186	0.4%	-0.052	-0.009
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>14</b>	<b>0.0%</b>	<b>2,610</b>	<b>5.4%</b>	<b>-5.348</b>	<b>-0.334</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	46,006	94.8%	NaN	NaN
<b>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</b>	<b>452</b>	<b>0.9%</b>	<b>45,953</b>	<b>94.7%</b>	<b>-93.727</b>	<b>-5.421</b>

**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,571	5.3%	2,420	5.0%	0.338	0.015
<i>Influenza Vaccination in Prior 400 Days</i>	16,964	35.1%	16,743	34.5%	0.633	0.013
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	6,525	13.5%	7,418	15.3%	-1.771	-0.050
<i>Evidence of COVID Three Months Prior</i>	367	0.8%	386	0.8%	-0.035	-0.004
<i>Evidence of COVID Two Months Prior</i>	258	0.5%	292	0.6%	-0.067	-0.009
<i>Evidence of COVID One Month Prior</i>	1,394	2.9%	1,393	2.9%	0.017	0.001
<i>Hospitalization Days -400 to -11</i>	2,975	6.2%	2,858	5.9%	0.272	0.011
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	100.0%	48,544	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	171	0.4%	158	0.3%	0.029	0.005
<i>Evidence of Influenza Three Days Prior</i>	45,745	94.7%	44,728	92.1%	2.573	0.104
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	94.7%	44,703	92.1%	2.589	0.104
<i>Positive Flu Lab Days -3 to 0</i>	288	0.6%	346	0.7%	-0.116	-0.014
<i>Influenza Testing in Prior Six Months</i>	35,484	73.5%	30,910	63.7%	9.793	0.212
<i>Evidence of COVID Three Days Prior</i>	1,245	2.6%	1,241	2.6%	0.021	0.001
<i>COVID Diagnosis Days -3 to 0</i>	1,168	2.4%	1,150	2.4%	0.049	0.003
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	154	0.3%	-0.083	-0.016
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.8	17.3	14.7	17.7	0.160	0.009
<i>encounters</i>	0.4	1.2	0.4	1.7	-0.012	-0.008
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.004	0.011

**Table 1m. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	2.8	8.9	2.9	8.2	-0.043	-0.005
<i>Mean number of filled prescriptions</i>	23.9	26.5	23.3	27.4	0.634	0.024
Mean number of generics dispensed	7.7	6.1	7.3	6.0	0.371	0.061

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	45,894	95.0%	45,894	94.5%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	47.6	13.5	47.6	13.9	0.012	0.001
Age						
19-44 years	22,089	48.1%	22,322	48.6%	-0.508	-0.010
45-64 years	14,474	31.5%	14,156	30.8%	0.693	0.015
≥ 65 years	9,331	20.3%	9,416	20.5%	-0.185	-0.005
Sex						
Female	25,230	55.0%	25,249	55.0%	-0.041	-0.001
Male	20,664	45.0%	20,645	45.0%	0.041	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	61	0.1%	59	0.1%	0.004	0.001
Asian	248	0.5%	253	0.6%	-0.011	-0.001
Black or African American	878	1.9%	881	1.9%	-0.007	-0.000
Multi-racial	149	0.3%	147	0.3%	0.004	0.001
Native Hawaiian or Other Pacific Islander	27	0.1%	27	0.1%	0.000	0.000
Unknown	34,324	74.8%	34,319	74.8%	0.011	0.000
White	10,207	22.2%	10,208	22.2%	-0.002	-0.000
Hispanic origin						
Yes	545	1.2%	837	1.8%	-0.636	-0.052
No	10,352	22.6%	10,356	22.6%	-0.009	-0.000
Unknown	34,997	76.3%	34,701	75.6%	0.645	0.015
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	14,057	30.6%	14,087	30.7%	-0.065	-0.001

**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	12,301	26.8%	12,295	26.8%	0.013	0.000
Q3	11,668	25.4%	11,664	25.4%	0.009	0.000
Q4 (Most deprived)	7,797	17.0%	7,786	17.0%	0.024	0.001
Unknown	67	0.1%	61	0.1%	0.013	0.004
<b>Year</b>						
2018	348	0.8%	924	2.0%	-1.255	-0.108
2019	11,041	24.1%	11,336	24.7%	-0.643	-0.015
2020	20,127	43.9%	19,277	42.0%	1.852	0.037
2021	3,046	6.6%	2,804	6.1%	0.527	0.022
2022	11,065	24.1%	11,182	24.4%	-0.255	-0.006
2023	267	0.6%	371	0.8%	-0.227	-0.027
<b>Season<sup>6</sup></b>						
Flu Season 2018	6,184	13.5%	6,222	13.6%	-0.083	-0.002
Flu Season 2019	24,585	53.6%	24,570	53.5%	0.033	0.001
Flu Season 2020	1,802	3.9%	1,799	3.9%	0.007	0.000
Flu Season 2021	5,537	12.1%	5,515	12.0%	0.048	0.001
Flu Season 2022	7,786	17.0%	7,788	17.0%	-0.004	-0.000
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.6	0.7	1.6	0.006	0.004
<i>Acute Myocardial Infarction</i>	264	0.6%	273	0.6%	-0.020	-0.003
<i>Alzheimers Disease</i>	112	0.2%	114	0.2%	-0.004	-0.001
<i>Anemia</i>	4,430	9.7%	4,427	9.6%	0.007	0.000
<i>Asthma</i>	4,063	8.9%	4,033	8.8%	0.065	0.002
<i>Atrial Fibrillation or Flutter</i>	1,694	3.7%	1,675	3.6%	0.041	0.002



**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,313	5.0%	2,312	5.0%	0.002	0.000
<i>Breast Cancer</i>	879	1.9%	858	1.9%	0.046	0.003
<i>Colorectal Cancer</i>	222	0.5%	224	0.5%	-0.004	-0.001
<i>Endometrial Cancer</i>	75	0.2%	74	0.2%	0.002	0.001
<i>Lung Cancer</i>	123	0.3%	117	0.3%	0.013	0.003
<i>Prostate Cancer</i>	548	1.2%	545	1.2%	0.007	0.001
<i>Urologic Cancer</i>	144	0.3%	135	0.3%	0.020	0.004
<i>Cataract</i>	4,436	9.7%	4,442	9.7%	-0.013	-0.000
<i>Chronic Kidney Disease</i>	2,306	5.0%	2,300	5.0%	0.013	0.001
<i>Chronic Obstructive Pulmonary Disorder</i>	3,622	7.9%	3,608	7.9%	0.031	0.001
<i>Depression/Bipolar/Other Mood Disorders</i>	7,360	16.0%	7,326	16.0%	0.074	0.002
<i>Diabetes</i>	5,853	12.8%	5,816	12.7%	0.081	0.002
<i>Glaucoma</i>	2,030	4.4%	2,050	4.5%	-0.044	-0.002
<i>Heart Failure and Nonischemic Heart Disease</i>	1,428	3.1%	1,411	3.1%	0.037	0.002
<i>Hepatic Disorders</i>	2,271	4.9%	2,246	4.9%	0.054	0.003
<i>Hip/Pelvic Fracture</i>	60	0.1%	59	0.1%	0.002	0.001
<i>Hyperlipidemia</i>	15,626	34.0%	15,616	34.0%	0.022	0.000
<i>Hypertension</i>	15,499	33.8%	15,443	33.6%	0.122	0.003
<i>Hypothyroidism</i>	5,973	13.0%	5,956	13.0%	0.037	0.001
<i>Ischemic Heart Disease</i>	3,782	8.2%	3,759	8.2%	0.050	0.002
<i>NonAlzheimers Dementia</i>	299	0.7%	298	0.6%	0.002	0.000
<i>Osteoporosis</i>	1,712	3.7%	1,697	3.7%	0.033	0.002
<i>Parkinsonism</i>	104	0.2%	100	0.2%	0.009	0.002
<i>Rheumatoid Arthritis/Osteoarthritis</i>	8,945	19.5%	8,896	19.4%	0.107	0.003
<i>Stroke/Transient Ischemic Attack</i>	739	1.6%	742	1.6%	-0.007	-0.001

**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	362	0.8%	358	0.8%	0.009	0.001
Evidence of Any High Risk Marker	15,748	34.3%	15,829	34.5%	-0.176	-0.004
<i>High Risk Component: Blood Disorders</i>	*****	*****	14	0.0%	-0.013	-0.008
<i>High Risk Component: Chronic Lung Disease</i>	411	0.9%	410	0.9%	0.002	0.000
<i>High Risk Component: Immunocompromised</i>	5,408	11.8%	5,387	11.7%	0.046	0.001
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	793	1.7%	790	1.7%	0.007	0.001
<i>High Risk Component: Obesity</i>	9,830	21.4%	9,811	21.4%	0.041	0.001
<i>Use</i>	6,007	13.1%	5,974	13.0%	0.072	0.002
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	8,185	17.8%	8,192	17.8%	-0.015	-0.000
Baloxavir Use Prior to Washout	182	0.4%	34	0.1%	0.322	0.067
Oseltamivir Use Prior to Washout	8,308	18.1%	8,294	18.1%	0.031	0.001
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	670	1.5%	772	1.7%	-0.222	-0.018
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	137	0.3%	176	0.4%	-0.085	-0.015
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>14</b>	<b>0.0%</b>	<b>2,483</b>	<b>5.4%</b>	<b>-5.380</b>	<b>-0.335</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	43,483	94.7%	NaN	NaN
<b>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</b>	<b>428</b>	<b>0.9%</b>	<b>43,434</b>	<b>94.6%</b>	<b>-93.707</b>	<b>-5.412</b>

**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,314	5.0%	2,302	5.0%	0.026	0.001
<i>Influenza Vaccination in Prior 400 Days</i>	15,799	34.4%	15,827	34.5%	-0.061	-0.001
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	6,440	14.0%	6,426	14.0%	0.031	0.001
<i>Evidence of COVID Three Months Prior</i>	352	0.8%	349	0.8%	0.007	0.001
<i>Evidence of COVID Two Months Prior</i>	249	0.5%	240	0.5%	0.020	0.003
<i>Evidence of COVID One Month Prior</i>	1,307	2.8%	1,311	2.9%	-0.009	-0.001
<i>Hospitalization Days -400 to -11</i>	2,706	5.9%	2,689	5.9%	0.037	0.002
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	45,894	100.0%	45,894	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	144	0.3%	146	0.3%	-0.004	-0.001
<i>Evidence of Influenza Three Days Prior</i>	43,471	94.7%	42,337	92.2%	2.471	0.100
<i>Influenza Diagnosis Days -3 to 0</i>	43,455	94.7%	42,315	92.2%	2.484	0.100
<i>Positive Flu Lab Days -3 to 0</i>	272	0.6%	325	0.7%	-0.115	-0.014
<i>Influenza Testing in Prior Six Months</i>	33,638	73.3%	29,488	64.3%	9.043	0.196
<i>Evidence of COVID Three Days Prior</i>	1,166	2.5%	1,171	2.6%	-0.011	-0.001
<i>COVID Diagnosis Days -3 to 0</i>	1,091	2.4%	1,084	2.4%	0.015	0.001
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	109	0.2%	146	0.3%	-0.081	-0.015
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.5	16.6	14.5	17.6	0.006	0.000
<i>encounters</i>	0.4	1.1	0.4	1.7	-0.010	-0.007
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.000	0.001

**Table 1n. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	2.8	8.5	2.8	8.1	-0.016	-0.002
<i>Mean number of filled prescriptions</i>	23.4	25.9	23.2	27.4	0.118	0.004
Mean number of generics dispensed	7.6	6.0	7.3	6.0	0.299	0.050

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,950	100.0%	3,456,633	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	44.6	15.6	-1.395	-0.089
Age						
12-18 years	13,156	17.1%	718,984	20.8%	-3.703	-0.095
19-44 years	29,046	37.7%	1,119,446	32.4%	5.361	0.113
45-64 years	20,193	26.2%	744,482	21.5%	4.704	0.110
≥ 65 years	14,555	18.9%	873,721	25.3%	-6.362	-0.154
Sex						
Female	41,544	54.0%	2,034,357	58.9%	-4.865	-0.098
Male	35,406	46.0%	1,422,276	41.1%	4.865	0.098
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	20,502	0.6%	-0.454	-0.075
Asian	473	0.6%	86,928	2.5%	-1.900	-0.154
Black or African American	1,339	1.7%	241,450	7.0%	-5.245	-0.259
Multi-racial	265	0.3%	16,973	0.5%	-0.147	-0.023
Native Hawaiian or Other Pacific Islander	44	0.1%	7,426	0.2%	-0.158	-0.043
Unknown	58,199	75.6%	1,783,031	51.6%	24.049	0.516
White	16,523	21.5%	1,300,323	37.6%	-16.146	-0.360
Hispanic origin						
Yes	1,424	1.9%	341,350	9.9%	-8.025	-0.347
No	16,796	21.8%	1,562,833	45.2%	-23.385	-0.511
Unknown	58,730	76.3%	1,552,450	44.9%	31.410	0.679

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	860,321	24.9%	8.121	0.180
Q2	20,273	26.3%	816,012	23.6%	2.739	0.063
Q3	18,622	24.2%	861,752	24.9%	-0.730	-0.017
Q4 (Most deprived)	12,524	16.3%	895,235	25.9%	-9.624	-0.238
Unknown	125	0.2%	4,068	0.1%	0.045	0.012
<b>Year</b>						
2018	610	0.8%	163,198	4.7%	-3.929	-0.242
2019	18,370	23.9%	1,493,522	43.2%	-19.335	-0.418
2020	31,865	41.4%	1,160,775	33.6%	7.829	0.162
2021	5,256	6.8%	89,286	2.6%	4.247	0.202
2022	20,410	26.5%	525,037	15.2%	11.334	0.282
2023	439	0.6%	24,815	0.7%	-0.147	-0.018
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,495	13.6%	1,293,192	37.4%	-23.773	-0.567
Flu Season 2019	39,126	50.8%	1,496,739	43.3%	7.546	0.152
Flu Season 2020	2,886	3.8%	50,273	1.5%	2.296	0.145
Flu Season 2021	9,969	13.0%	207,665	6.0%	6.947	0.239
Flu Season 2022	14,474	18.8%	408,764	11.8%	6.984	0.195
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	1.1	1.9	-0.414	-0.238
<i>Acute Myocardial Infarction</i>	416	0.5%	27,352	0.8%	-0.251	-0.031
<i>Alzheimers Disease</i>	273	0.4%	54,583	1.6%	-1.224	-0.125
<i>Anemia</i>	7,092	9.2%	441,208	12.8%	-3.548	-0.114
<i>Asthma</i>	6,832	8.9%	391,652	11.3%	-2.452	-0.081

**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	160,838	4.7%	-1.201	-0.061
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	171,226	5.0%	-0.360	-0.017
<i>Breast Cancer</i>	1,350	1.8%	67,251	1.9%	-0.191	-0.014
<i>Colorectal Cancer</i>	341	0.4%	19,667	0.6%	-0.126	-0.018
<i>Endometrial Cancer</i>	108	0.1%	7,568	0.2%	-0.079	-0.019
<i>Lung Cancer</i>	215	0.3%	15,070	0.4%	-0.157	-0.026
<i>Prostate Cancer</i>	888	1.2%	43,212	1.3%	-0.096	-0.009
<i>Urologic Cancer</i>	214	0.3%	11,013	0.3%	-0.041	-0.007
<i>Cataract</i>	6,814	8.9%	386,433	11.2%	-2.324	-0.077
<i>Chronic Kidney Disease</i>	3,510	4.6%	241,230	7.0%	-2.417	-0.104
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	341,927	9.9%	-3.077	-0.111
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	641,984	18.6%	-3.708	-0.100
<i>Diabetes</i>	8,653	11.2%	531,262	15.4%	-4.124	-0.122
<i>Glaucoma</i>	3,156	4.1%	184,619	5.3%	-1.240	-0.058
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	171,561	5.0%	-2.016	-0.104
<i>Hepatic Disorders</i>	3,291	4.3%	183,614	5.3%	-1.035	-0.048
<i>Hip/Pelvic Fracture</i>	121	0.2%	8,669	0.3%	-0.094	-0.021
<i>Hyperlipidemia</i>	22,967	29.8%	1,113,228	32.2%	-2.359	-0.051
<i>Hypertension</i>	22,418	29.1%	1,166,196	33.7%	-4.605	-0.099
<i>Hypothyroidism</i>	9,127	11.9%	449,760	13.0%	-1.151	-0.035
<i>Ischemic Heart Disease</i>	5,729	7.4%	310,213	9.0%	-1.529	-0.056
<i>NonAlzheimers Dementia</i>	773	1.0%	133,985	3.9%	-2.872	-0.187
<i>Osteoporosis</i>	2,748	3.6%	168,225	4.9%	-1.296	-0.064
<i>Parkinsonism</i>	207	0.3%	24,541	0.7%	-0.441	-0.063
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	685,098	19.8%	-2.728	-0.070

**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	95,819	2.8%	-1.140	-0.078
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	47,645	1.4%	-0.640	-0.063
<i>Evidence of Any High Risk Marker</i>	22,632	29.4%	1,179,433	34.1%	-4.710	-0.101
<i>High Risk Component: Blood Disorders</i>	22	0.0%	2,290	0.1%	-0.038	-0.017
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	34,815	1.0%	-0.036	-0.004
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	392,260	11.3%	-0.515	-0.016
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	158,323	4.6%	-2.502	-0.140
<i>High Risk Component: Obesity</i>	13,490	17.5%	615,828	17.8%	-0.285	-0.007
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,352	10.9%	484,082	14.0%	-3.151	-0.096
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,159	21.0%	658,164	19.0%	1.959	0.049
<i>Baloxavir Use Prior to Washout</i>	426	0.6%	940	0.0%	0.526	0.098
<i>Oseltamivir Use Prior to Washout</i>	16,395	21.3%	665,747	19.3%	2.046	0.051
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	144,734	4.2%	-2.243	-0.130
<i>Baloxavir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Oseltamivir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Aspirin or salicylate-containing medicines</i>	226	0.3%	26,907	0.8%	-0.485	-0.066
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	48	0.1%	616,477	17.8%	-17.772	-0.655
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	2,770,438	80.1%	NaN	NaN



**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	709	0.9%	2,766,756	80.0%	-79.121	-2.723
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	212,636	6.2%	-1.565	-0.069
<i>Influenza Vaccination in Prior 400 Days</i>	27,235	35.4%	1,218,270	35.2%	0.149	0.003
<a href="#">SARS-CoV-2 Vaccination in Prior 400 Days</a>	11,691	15.2%	314,165	9.1%	6.104	0.188
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	13,151	0.4%	0.358	0.048
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	10,258	0.3%	0.219	0.034
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	34,093	1.0%	1.092	0.089
<a href="#">Hospitalization Days -400 to -11</a>	4,237	5.5%	284,386	8.2%	-2.721	-0.108
<b>Respiratory Infection Markers</b>						
<a href="#">Medically-Attended Acute Respiratory Illness</a>	59,010	76.7%	2,174,812	62.9%	13.769	0.303
<i>COVID Severe Syndrome</i>	173	0.2%	4,848	0.1%	0.085	0.020
<a href="#">Evidence of Influenza Three Days Prior</a>	56,198	73.0%	1,991,440	57.6%	15.420	0.328
<a href="#">Influenza Diagnosis Days -3 to 0</a>	56,180	73.0%	1,990,539	57.6%	15.422	0.328
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	8,416	0.2%	0.184	0.032
<a href="#">Influenza Testing in Prior Six Months</a>	43,984	57.2%	1,356,394	39.2%	17.919	0.365
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	26,821	0.8%	0.911	0.083
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	25,117	0.7%	0.856	0.080
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	2,326	0.1%	0.083	0.025
<b>Health Service Utilization Intensity Metrics</b>						
<a href="#">Mean number of ambulatory encounters</a>	14.2	17.0	16.4	22.2	-2.230	-0.113
<a href="#">encounters</a>	0.4	1.1	0.6	1.7	-0.289	-0.201

**Table 1o. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.5	-0.045	-0.109
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	8.0	28.3	-4.930	-0.228
<i>Mean number of filled prescriptions</i>	22.1	26.6	29.5	38.6	-7.412	-0.224
<i>Mean number of generics dispensed</i>	7.1	6.0	7.9	6.5	-0.764	-0.123

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,948	100.0%	76,948	2.2%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	43.1	16.0	0.113	0.007
Age						
12-18 years	13,156	17.1%	12,921	16.8%	0.305	0.008
19-44 years	29,045	37.7%	30,067	39.1%	-1.328	-0.027
45-64 years	20,192	26.2%	19,397	25.2%	1.033	0.024
≥ 65 years	14,555	18.9%	14,563	18.9%	-0.010	-0.000
Sex						
Female	41,543	54.0%	41,405	53.8%	0.179	0.004
Male	35,405	46.0%	35,543	46.2%	-0.179	-0.004
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	120	0.2%	-0.017	-0.004
Asian	473	0.6%	464	0.6%	0.012	0.002
Black or African American	1,339	1.7%	1,305	1.7%	0.044	0.003
Multi-racial	265	0.3%	290	0.4%	-0.032	-0.005
Native Hawaiian or Other Pacific Islander	44	0.1%	44	0.1%	0.000	0.000
Unknown	58,197	75.6%	58,184	75.6%	0.017	0.000
White	16,523	21.5%	16,541	21.5%	-0.023	-0.001
Hispanic origin						
Yes	1,424	1.9%	1,790	2.3%	-0.476	-0.033
No	16,796	21.8%	16,792	21.8%	0.005	0.000
Unknown	58,728	76.3%	58,366	75.9%	0.470	0.011

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	25,643	33.3%	-0.314	-0.007
Q2	20,271	26.3%	20,160	26.2%	0.144	0.003
Q3	18,622	24.2%	18,561	24.1%	0.079	0.002
Q4 (Most deprived)	12,524	16.3%	12,454	16.2%	0.091	0.002
Unknown	125	0.2%	128	0.2%	-0.004	-0.001
<b>Year</b>						
2018	610	0.8%	1,420	1.8%	-1.053	-0.092
2019	18,370	23.9%	19,329	25.1%	-1.246	-0.029
2020	31,863	41.4%	30,781	40.0%	1.406	0.029
2021	5,256	6.8%	5,031	6.5%	0.292	0.012
2022	20,410	26.5%	19,779	25.7%	0.820	0.019
2023	439	0.6%	608	0.8%	-0.220	-0.027
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,495	13.6%	10,967	14.3%	-0.613	-0.018
Flu Season 2019	39,124	50.8%	39,344	51.1%	-0.286	-0.006
Flu Season 2020	2,886	3.8%	2,900	3.8%	-0.018	-0.001
Flu Season 2021	9,969	13.0%	9,683	12.6%	0.372	0.011
Flu Season 2022	14,474	18.8%	14,054	18.3%	0.546	0.014
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.8	1.6	-0.036	-0.023
<i>Acute Myocardial Infarction</i>	416	0.5%	427	0.6%	-0.014	-0.002
<i>Alzheimers Disease</i>	273	0.4%	363	0.5%	-0.117	-0.018
<i>Anemia</i>	7,092	9.2%	7,051	9.2%	0.053	0.002
<i>Asthma</i>	6,832	8.9%	7,397	9.6%	-0.734	-0.025

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	2,620	3.4%	0.047	0.003
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	3,547	4.6%	-0.016	-0.001
<i>Breast Cancer</i>	1,350	1.8%	1,255	1.6%	0.123	0.010
<i>Colorectal Cancer</i>	341	0.4%	360	0.5%	-0.025	-0.004
<i>Endometrial Cancer</i>	108	0.1%	124	0.2%	-0.021	-0.005
<i>Lung Cancer</i>	215	0.3%	246	0.3%	-0.040	-0.007
<i>Prostate Cancer</i>	888	1.2%	886	1.2%	0.003	0.000
<i>Urologic Cancer</i>	214	0.3%	212	0.3%	0.003	0.000
<i>Cataract</i>	6,814	8.9%	6,703	8.7%	0.144	0.005
<i>Chronic Kidney Disease</i>	3,510	4.6%	3,761	4.9%	-0.326	-0.015
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	5,690	7.4%	-0.580	-0.023
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	11,678	15.2%	-0.312	-0.009
<i>Diabetes</i>	8,652	11.2%	8,712	11.3%	-0.078	-0.002
<i>Glaucoma</i>	3,156	4.1%	3,099	4.0%	0.074	0.004
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	2,273	3.0%	-0.006	-0.000
<i>Hepatic Disorders</i>	3,291	4.3%	3,380	4.4%	-0.116	-0.006
<i>Hip/Pelvic Fracture</i>	121	0.2%	133	0.2%	-0.016	-0.004
<i>Hyperlipidemia</i>	22,965	29.8%	23,134	30.1%	-0.220	-0.005
<i>Hypertension</i>	22,417	29.1%	22,324	29.0%	0.121	0.003
<i>Hypothyroidism</i>	9,127	11.9%	8,860	11.5%	0.347	0.011
<i>Ischemic Heart Disease</i>	5,728	7.4%	5,434	7.1%	0.382	0.015
<i>NonAlzheimers Dementia</i>	773	1.0%	872	1.1%	-0.129	-0.013
<i>Osteoporosis</i>	2,748	3.6%	2,781	3.6%	-0.043	-0.002
<i>Parkinsonism</i>	207	0.3%	230	0.3%	-0.030	-0.006
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	13,280	17.3%	-0.166	-0.004

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	1,222	1.6%	0.044	0.004
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	649	0.8%	-0.105	-0.012
Evidence of Any High Risk Marker	22,631	29.4%	23,461	30.5%	-1.079	-0.024
<i>High Risk Component: Blood Disorders</i>	22	0.0%	27	0.0%	-0.006	-0.004
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	628	0.8%	0.155	0.016
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	8,191	10.6%	0.188	0.006
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	1,784	2.3%	-0.240	-0.016
<i>High Risk Component: Obesity</i>	13,489	17.5%	13,811	17.9%	-0.418	-0.011
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,351	10.9%	8,966	11.7%	-0.799	-0.025
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,158	21.0%	14,297	18.6%	2.419	0.061
Baloxavir Use Prior to Washout	426	0.6%	50	0.1%	0.489	0.088
Oseltamivir Use Prior to Washout	16,394	21.3%	14,557	18.9%	2.387	0.060
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	1,721	2.2%	-0.292	-0.020
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	226	0.3%	263	0.3%	-0.048	-0.009
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>48</b>	<b>0.1%</b>	<b>12,482</b>	<b>16.2%</b>	<b>-16.159</b>	<b>-0.618</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	64,155	83.4%	NaN	NaN

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	709	0.9%	64,083	83.3%	-82.360	-3.024
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	3,442	4.5%	0.113	0.005
<i>Influenza Vaccination in Prior 400 Days</i>	27,234	35.4%	26,875	34.9%	0.467	0.010
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,691	15.2%	11,495	14.9%	0.255	0.007
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	552	0.7%	0.021	0.002
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	361	0.5%	0.047	0.007
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	1,423	1.8%	0.229	0.016
Hospitalization Days -400 to -11	4,237	5.5%	4,491	5.8%	-0.330	-0.014
<b>Respiratory Infection Markers</b>						
<a href="#">Medically-Attended Acute Respiratory Illness</a>	59,008	76.7%	50,447	65.6%	11.126	0.247
<i>COVID Severe Syndrome</i>	173	0.2%	183	0.2%	-0.013	-0.003
<a href="#">Evidence of Influenza Three Days Prior</a>	56,196	73.0%	46,890	60.9%	12.094	0.259
<a href="#">Influenza Diagnosis Days -3 to 0</a>	56,178	73.0%	46,852	60.9%	12.120	0.260
Positive Flu Lab Days -3 to 0	329	0.4%	323	0.4%	0.008	0.001
<a href="#">Influenza Testing in Prior Six Months</a>	43,982	57.2%	33,528	43.6%	13.586	0.274
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	1,149	1.5%	0.194	0.015
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	1,061	1.4%	0.204	0.017
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	126	0.2%	-0.013	-0.003
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	14.0	17.3	0.180	0.011
<i>encounters</i>	0.4	1.1	0.4	1.1	-0.023	-0.020

**Table 1p. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.4	-0.005	-0.016
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	3.2	12.4	-0.139	-0.012
<i>Mean number of filled prescriptions</i>	22.1	26.6	21.4	26.1	0.717	0.027
Mean number of generics dispensed	7.1	6.0	6.9	5.9	0.273	0.046

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,900	100.0%	64,466	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	42.5	16.0	0.669	0.042
Age						
12-18 years	13,151	17.1%	11,128	17.3%	-0.160	-0.004
19-44 years	29,023	37.7%	25,378	39.4%	-1.625	-0.033
45-64 years	20,178	26.2%	16,171	25.1%	1.155	0.026
$\geq$ 65 years	14,548	18.9%	11,789	18.3%	0.631	0.016
Sex						
Female	41,517	54.0%	34,545	53.6%	0.402	0.008
Male	35,383	46.0%	29,921	46.4%	-0.402	-0.008
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	98	0.2%	-0.013	-0.003
Asian	473	0.6%	426	0.7%	-0.046	-0.006
Black or African American	1,339	1.7%	1,146	1.8%	-0.036	-0.003
Multi-racial	265	0.3%	250	0.4%	-0.043	-0.007
Native Hawaiian or Other Pacific Islander	44	0.1%	42	0.1%	-0.008	-0.003
Unknown	58,157	75.6%	49,058	76.1%	-0.472	-0.011
White	16,515	21.5%	13,446	20.9%	0.618	0.015
Hispanic origin						
Yes	1,424	1.9%	1,595	2.5%	-0.622	-0.043
No	16,788	21.8%	13,751	21.3%	0.500	0.012
Unknown	58,688	76.3%	49,120	76.2%	0.122	0.003

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,386	33.0%	21,118	32.8%	0.253	0.005
Q2	20,254	26.3%	16,878	26.2%	0.157	0.004
Q3	18,607	24.2%	15,566	24.1%	0.050	0.001
Q4 (Most deprived)	12,523	16.3%	10,794	16.7%	-0.459	-0.012
Unknown	125	0.2%	109	0.2%	-0.007	-0.002
<b>Year</b>						
2018	610	0.8%	1,200	1.9%	-1.068	-0.093
2019	18,365	23.9%	15,880	24.6%	-0.751	-0.018
2020	31,847	41.4%	25,263	39.2%	2.225	0.045
2021	5,250	6.8%	4,343	6.7%	0.090	0.004
2022	20,389	26.5%	17,206	26.7%	-0.176	-0.004
2023	439	0.6%	574	0.9%	-0.320	-0.038
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,492	13.6%	9,028	14.0%	-0.361	-0.010
Flu Season 2019	39,106	50.9%	32,218	50.0%	0.876	0.018
Flu Season 2020	2,885	3.8%	2,603	4.0%	-0.286	-0.015
Flu Season 2021	9,956	12.9%	8,292	12.9%	0.084	0.003
Flu Season 2022	14,461	18.8%	12,325	19.1%	-0.314	-0.008
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	-0.007	-0.005
<i>Acute Myocardial Infarction</i>	416	0.5%	342	0.5%	0.010	0.001
<i>Alzheimers Disease</i>	273	0.4%	200	0.3%	0.045	0.008
<i>Anemia</i>	7,082	9.2%	5,741	8.9%	0.304	0.011
<i>Asthma</i>	6,830	8.9%	6,243	9.7%	-0.803	-0.028

**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,653	3.4%	2,111	3.3%	0.175	0.010
<i>Benign Prostatic Hyperplasia</i>	3,533	4.6%	2,968	4.6%	-0.010	-0.000
<i>Breast Cancer</i>	1,349	1.8%	1,009	1.6%	0.189	0.015
<i>Colorectal Cancer</i>	341	0.4%	282	0.4%	0.006	0.001
<i>Endometrial Cancer</i>	107	0.1%	102	0.2%	-0.019	-0.005
<i>Lung Cancer</i>	215	0.3%	187	0.3%	-0.010	-0.002
<i>Prostate Cancer</i>	888	1.2%	722	1.1%	0.035	0.003
<i>Urologic Cancer</i>	213	0.3%	178	0.3%	0.001	0.000
<i>Cataract</i>	6,808	8.9%	5,477	8.5%	0.357	0.013
<i>Chronic Kidney Disease</i>	3,509	4.6%	3,094	4.8%	-0.236	-0.011
<i>Chronic Obstructive Pulmonary Disorder</i>	5,243	6.8%	4,774	7.4%	-0.588	-0.023
<i>Depression/Bipolar/Other Mood Disorders</i>	11,430	14.9%	9,703	15.1%	-0.188	-0.005
<i>Diabetes</i>	8,648	11.2%	7,250	11.2%	-0.000	-0.000
<i>Glaucoma</i>	3,156	4.1%	2,512	3.9%	0.207	0.011
<i>Heart Failure and Nonischemic Heart Disease</i>	2,264	2.9%	1,818	2.8%	0.124	0.007
<i>Hepatic Disorders</i>	3,289	4.3%	2,839	4.4%	-0.127	-0.006
<i>Hip/Pelvic Fracture</i>	121	0.2%	107	0.2%	-0.009	-0.002
<i>Hyperlipidemia</i>	22,953	29.8%	19,135	29.7%	0.166	0.004
<i>Hypertension</i>	22,400	29.1%	18,493	28.7%	0.442	0.010
<i>Hypothyroidism</i>	9,118	11.9%	7,166	11.1%	0.741	0.023
<i>Ischemic Heart Disease</i>	5,722	7.4%	4,481	7.0%	0.490	0.019
<i>NonAlzheimers Dementia</i>	771	1.0%	468	0.7%	0.277	0.030
<i>Osteoporosis</i>	2,746	3.6%	2,224	3.4%	0.121	0.007
<i>Parkinsonism</i>	207	0.3%	164	0.3%	0.015	0.003
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,145	17.1%	11,011	17.1%	0.013	0.000

**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,254	1.6%	948	1.5%	0.160	0.013
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	506	0.8%	-0.046	-0.005
Evidence of Any High Risk Marker	22,613	29.4%	19,613	30.4%	-1.018	-0.022
<i>High Risk Component: Blood Disorders</i>	22	0.0%	23	0.0%	-0.007	-0.004
<i>High Risk Component: Chronic Lung Disease</i>	746	1.0%	493	0.8%	0.205	0.022
<i>High Risk Component: Immunocompromised</i>	8,328	10.8%	6,714	10.4%	0.415	0.013
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,597	2.1%	1,373	2.1%	-0.053	-0.004
<i>High Risk Component: Obesity</i>	13,479	17.5%	11,721	18.2%	-0.654	-0.017
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,342	10.8%	7,552	11.7%	-0.867	-0.027
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,144	21.0%	11,396	17.7%	3.316	0.084
Baloxavir Use Prior to Washout	425	0.6%	41	0.1%	0.489	0.088
Oseltamivir Use Prior to Washout	16,380	21.3%	11,616	18.0%	3.282	0.083
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,495	1.9%	1,310	2.0%	-0.088	-0.006
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	226	0.3%	216	0.3%	-0.041	-0.007
Oseltamivir Days Supply $\geq$ 7 Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Day 0	0	0.0%	62,923	97.6%	NaN	NaN

**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose <math>\geq</math> 150mg Days -30 to 30</a>	700	0.9%	62,892	97.6%	-96.648	-7.542
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,524	4.6%	2,813	4.4%	0.219	0.011
<i>Influenza Vaccination in Prior 400 Days</i>	27,213	35.4%	21,719	33.7%	1.697	0.036
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,674	15.2%	9,867	15.3%	-0.125	-0.003
<i>Evidence of COVID Three Months Prior</i>	567	0.7%	460	0.7%	0.024	0.003
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	299	0.5%	0.052	0.008
<i>Evidence of COVID One Month Prior</i>	1,598	2.1%	1,307	2.0%	0.051	0.004
Hospitalization Days -400 to -11	4,232	5.5%	3,631	5.6%	-0.129	-0.006
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	58,991	76.7%	47,770	74.1%	2.610	0.061
<i>COVID Severe Syndrome</i>	172	0.2%	169	0.3%	-0.038	-0.008
<i>Evidence of Influenza Three Days Prior</i>	56,179	73.1%	44,584	69.2%	3.896	0.086
<i>Influenza Diagnosis Days -3 to 0</i>	56,161	73.0%	44,547	69.1%	3.930	0.087
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	319	0.5%	-0.067	-0.010
<a href="#">Influenza Testing in Prior Six Months</a>	43,971	57.2%	31,756	49.3%	7.919	0.159
<i>Evidence of COVID Three Days Prior</i>	1,297	1.7%	1,075	1.7%	0.019	0.001
<i>COVID Diagnosis Days -3 to 0</i>	1,217	1.6%	992	1.5%	0.044	0.004
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	120	0.2%	-0.035	-0.009
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	13.8	16.7	0.366	0.022
<i>encounters</i>	0.4	1.1	0.4	1.1	-0.027	-0.025

**Table 1q. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	-0.002	-0.007
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	3.0	11.1	0.132	0.012
<i>Mean number of filled prescriptions</i>	22.1	26.5	20.6	24.9	1.477	0.057
Mean number of generics dispensed	7.1	6.0	6.8	5.8	0.328	0.056

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	61,588	80.1%	61,588	95.5%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	42.2	15.8	42.3	16.0	-0.117	-0.007
Age						
12-18 years	11,071	18.0%	10,669	17.3%	0.653	0.017
19-44 years	23,982	38.9%	24,477	39.7%	-0.804	-0.016
45-64 years	15,720	25.5%	15,480	25.1%	0.390	0.009
$\geq 65$ years	10,815	17.6%	10,962	17.8%	-0.239	-0.006
Sex						
Female	32,674	53.1%	32,764	53.2%	-0.146	-0.003
Male	28,914	46.9%	28,824	46.8%	0.146	0.003
Race <sup>4</sup>						
American Indian or Alaska Native	80	0.1%	79	0.1%	0.002	0.000
Asian	382	0.6%	382	0.6%	0.000	0.000
Black or African American	1,016	1.6%	986	1.6%	0.049	0.004
Multi-racial	217	0.4%	225	0.4%	-0.013	-0.002
Native Hawaiian or Other Pacific Islander	37	0.1%	41	0.1%	-0.006	-0.003
Unknown	47,594	77.3%	47,581	77.3%	0.021	0.001
White	12,262	19.9%	12,294	20.0%	-0.052	-0.001
Hispanic origin						
Yes	1,059	1.7%	1,383	2.2%	-0.526	-0.038
No	12,463	20.2%	12,486	20.3%	-0.037	-0.001
Unknown	48,066	78.0%	47,719	77.5%	0.563	0.014

**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>ZCTA Social Deprivation Index Score, National Quartile<sup>5</sup></i>						
Q1 (Least deprived)	20,380	33.1%	20,401	33.1%	-0.034	-0.001
Q2	16,159	26.2%	16,167	26.3%	-0.013	-0.000
Q3	14,861	24.1%	14,851	24.1%	0.016	0.000
Q4 (Most deprived)	10,078	16.4%	10,063	16.3%	0.024	0.001
Unknown	105	0.2%	105	0.2%	0.000	0.000
<i>Year</i>						
2018	504	0.8%	1,143	1.9%	-1.038	-0.090
2019	14,749	23.9%	15,154	24.6%	-0.658	-0.015
2020	25,330	41.1%	24,280	39.4%	1.705	0.035
2021	4,354	7.1%	4,121	6.7%	0.378	0.015
2022	16,280	26.4%	16,354	26.6%	-0.120	-0.003
2023	371	0.6%	536	0.9%	-0.268	-0.031
<i>Season<sup>6</sup></i>						
Flu Season 2018	8,511	13.8%	8,518	13.8%	-0.011	-0.000
Flu Season 2019	31,060	50.4%	31,048	50.4%	0.019	0.000
Flu Season 2020	2,460	4.0%	2,405	3.9%	0.089	0.005
Flu Season 2021	7,938	12.9%	7,933	12.9%	0.008	0.000
Flu Season 2022	11,619	18.9%	11,684	19.0%	-0.106	-0.003
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>						
	0.6	1.4	0.7	1.5	-0.068	-0.046
<i>Acute Myocardial Infarction</i>	276	0.4%	301	0.5%	-0.041	-0.006



**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Alzheimers Disease</i>	181	0.3%	191	0.3%	-0.016	-0.003
<i>Anemia</i>	4,994	8.1%	5,347	8.7%	-0.573	-0.021
<i>Asthma</i>	5,299	8.6%	5,735	9.3%	-0.708	-0.025
<i>Atrial Fibrillation or Flutter</i>	1,786	2.9%	1,971	3.2%	-0.300	-0.017
<i>Benign Prostatic Hyperplasia</i>	2,592	4.2%	2,787	4.5%	-0.317	-0.015
<i>Breast Cancer</i>	959	1.6%	937	1.5%	0.036	0.003
<i>Colorectal Cancer</i>	240	0.4%	264	0.4%	-0.039	-0.006
<i>Endometrial Cancer</i>	82	0.1%	93	0.2%	-0.018	-0.005
<i>Lung Cancer</i>	158	0.3%	165	0.3%	-0.011	-0.002
<i>Prostate Cancer</i>	648	1.1%	677	1.1%	-0.047	-0.005
<i>Urologic Cancer</i>	158	0.3%	168	0.3%	-0.016	-0.003
<i>Cataract</i>	4,977	8.1%	5,124	8.3%	-0.239	-0.009
<i>Chronic Kidney Disease</i>	2,479	4.0%	2,867	4.7%	-0.630	-0.031
<i>Chronic Obstructive Pulmonary Disorder</i>	3,787	6.1%	4,418	7.2%	-1.025	-0.041
<i>Depression/Bipolar/Other Mood Disorders</i>	8,671	14.1%	9,066	14.7%	-0.641	-0.018
<i>Diabetes</i>	6,272	10.2%	6,740	10.9%	-0.760	-0.025
<i>Glaucoma</i>	2,315	3.8%	2,368	3.8%	-0.086	-0.004
<i>Heart Failure and Nonischemic Heart Disease</i>	1,497	2.4%	1,677	2.7%	-0.292	-0.018
<i>Hepatic Disorders</i>	2,373	3.9%	2,642	4.3%	-0.437	-0.022
<i>Hip/Pelvic Fracture</i>	89	0.1%	101	0.2%	-0.019	-0.005
<i>Hyperlipidemia</i>	17,134	27.8%	17,991	29.2%	-1.392	-0.031
<i>Hypertension</i>	16,665	27.1%	17,308	28.1%	-1.044	-0.023
<i>Hypothyroidism</i>	6,439	10.5%	6,794	11.0%	-0.576	-0.019
<i>Ischemic Heart Disease</i>	4,024	6.5%	4,109	6.7%	-0.138	-0.006

**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>NonAlzheimers Dementia</i>	494	0.8%	442	0.7%	0.084	0.010
<i>Osteoporosis</i>	1,954	3.2%	2,060	3.3%	-0.172	-0.010
<i>Parkinsonism</i>	131	0.2%	155	0.3%	-0.039	-0.008
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,516	15.5%	10,255	16.7%	-1.200	-0.033
<i>Stroke/Transient Ischemic Attack</i>	886	1.4%	869	1.4%	0.028	0.002
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	383	0.6%	433	0.7%	-0.081	-0.010
Evidence of Any High Risk Marker	17,094	27.8%	18,310	29.7%	-1.974	-0.044
<i>High Risk Component: Blood Disorders</i>	15	0.0%	21	0.0%	-0.010	-0.006
<i>High Risk Component: Chronic Lung Disease</i>	487	0.8%	472	0.8%	0.024	0.003
<i>High Risk Component: Immunocompromised</i>	6,088	9.9%	6,272	10.2%	-0.299	-0.010
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,170	1.9%	1,250	2.0%	-0.130	-0.009
<i>High Risk Component: Obesity</i>	10,305	16.7%	10,992	17.8%	-1.115	-0.030
<i>High Risk Component: Tobacco or Nicotine Use</i>	6,268	10.2%	6,976	11.3%	-1.150	-0.037
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,805	20.8%	10,939	17.8%	3.030	0.077
Baloxavir Use Prior to Washout	326	0.5%	36	0.1%	0.471	0.087
Oseltamivir Use Prior to Washout	12,992	21.1%	11,146	18.1%	2.997	0.076
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,198	1.9%	1,229	2.0%	-0.050	-0.004
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN

**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	155	0.3%	190	0.3%	-0.057	-0.011
Oseltamivir Days Supply $\geq 7$ Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq 150$ mg Day 0	0	0.0%	60,142	97.7%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq 150$ mg Days -30 to 30	567	0.9%	60,110	97.6%	-96.680	-7.579
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,551	4.1%	2,601	4.2%	-0.081	-0.004
<i>Influenza Vaccination in Prior 400 Days</i>	20,865	33.9%	20,631	33.5%	0.380	0.008
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,230	15.0%	9,384	15.2%	-0.250	-0.007
<i>Evidence of COVID Three Months Prior</i>	427	0.7%	421	0.7%	0.010	0.001
<i>Evidence of COVID Two Months Prior</i>	299	0.5%	277	0.4%	0.036	0.005
<i>Evidence of COVID One Month Prior</i>	1,287	2.1%	1,227	2.0%	0.097	0.007
Hospitalization Days -400 to -11	2,956	4.8%	3,236	5.3%	-0.455	-0.021
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	47,550	77.2%	45,612	74.1%	3.147	0.073
<i>COVID Severe Syndrome</i>	136	0.2%	159	0.3%	-0.037	-0.008
Evidence of Influenza Three Days Prior	45,320	73.6%	42,589	69.2%	4.434	0.098
Influenza Diagnosis Days -3 to 0	45,304	73.6%	42,556	69.1%	4.462	0.099
Positive Flu Lab Days -3 to 0	258	0.4%	294	0.5%	-0.058	-0.009
Influenza Testing in Prior Six Months	35,462	57.6%	30,415	49.4%	8.195	0.165
Evidence of COVID Three Days Prior	1,056	1.7%	1,014	1.6%	0.068	0.005
COVID Diagnosis Days -3 to 0	991	1.6%	936	1.5%	0.089	0.007

**Table 1r. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
IP Legacy COVID Diagnosis Days -3 to 0	0	0.0%	0	0.0%	NaN	NaN
Positive COVID Lab Days -3 to 0	96	0.2%	114	0.2%	-0.029	-0.007
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	13.1	15.7	13.4	16.2	-0.358	-0.022
<i>encounters</i>	0.3	1.0	0.4	1.0	-0.034	-0.034
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	-0.008	-0.025
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.7	9.5	2.8	9.7	-0.098	-0.010
<i>Mean number of filled prescriptions</i>	19.8	23.7	20.1	24.5	-0.299	-0.012
Mean number of generics dispensed	6.6	5.6	6.7	5.8	-0.026	-0.005

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	59,008	100.0%	50,447	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	41.9	15.8	41.0	16.0	0.927	0.058
Age						
12-18 years	10,865	18.4%	9,785	19.4%	-0.984	-0.025
19-44 years	22,864	38.7%	20,238	40.1%	-1.370	-0.028
45-64 years	15,188	25.7%	12,136	24.1%	1.682	0.039
≥ 65 years	10,091	17.1%	8,288	16.4%	0.672	0.018
Sex						
Female	31,768	53.8%	27,056	53.6%	0.204	0.004
Male	27,240	46.2%	23,391	46.4%	-0.204	-0.004
Race <sup>4</sup>						
American Indian or Alaska Native	81	0.1%	77	0.2%	-0.015	-0.004
Asian	293	0.5%	275	0.5%	-0.049	-0.007
Black or African American	1,064	1.8%	947	1.9%	-0.074	-0.006
Multi-racial	202	0.3%	190	0.4%	-0.034	-0.006
Native Hawaiian or Other Pacific Islander	32	0.1%	28	0.1%	-0.001	-0.001
Unknown	45,521	77.1%	39,069	77.4%	-0.302	-0.007
White	11,815	20.0%	9,861	19.5%	0.475	0.012
Hispanic origin						
Yes	1,113	1.9%	1,267	2.5%	-0.625	-0.043
No	11,944	20.2%	10,134	20.1%	0.153	0.004
Unknown	45,951	77.9%	39,046	77.4%	0.472	0.011

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	19,121	32.4%	16,310	32.3%	0.073	0.002
Q2	15,513	26.3%	13,075	25.9%	0.371	0.008
Q3	14,551	24.7%	12,380	24.5%	0.119	0.003
Q4 (Most deprived)	9,721	16.5%	8,589	17.0%	-0.552	-0.015
Unknown	98	0.2%	92	0.2%	-0.016	-0.004
<b>Year</b>						
2018	438	0.7%	894	1.8%	-1.030	-0.093
2019	14,817	25.1%	12,605	25.0%	0.124	0.003
2020	25,450	43.1%	19,511	38.7%	4.454	0.091
2021	3,796	6.4%	3,294	6.5%	-0.097	-0.004
2022	14,204	24.1%	13,734	27.2%	-3.153	-0.072
2023	303	0.5%	409	0.8%	-0.297	-0.037
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,456	14.3%	7,126	14.1%	0.205	0.006
Flu Season 2019	31,395	53.2%	25,203	50.0%	3.245	0.065
Flu Season 2020	2,061	3.5%	1,785	3.5%	-0.046	-0.002
Flu Season 2021	7,260	12.3%	6,584	13.1%	-0.748	-0.022
Flu Season 2022	9,836	16.7%	9,749	19.3%	-2.656	-0.069
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	-0.017	-0.011
<i>Acute Myocardial Infarction</i>	298	0.5%	242	0.5%	0.025	0.004
<i>Alzheimers Disease</i>	129	0.2%	123	0.2%	-0.025	-0.005
<i>Anemia</i>	4,931	8.4%	4,198	8.3%	0.035	0.001
<i>Asthma</i>	5,317	9.0%	4,994	9.9%	-0.889	-0.030

**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	1,851	3.1%	1,503	3.0%	0.157	0.009
<i>Benign Prostatic Hyperplasia</i>	2,427	4.1%	2,079	4.1%	-0.008	-0.000
<i>Breast Cancer</i>	950	1.6%	694	1.4%	0.234	0.019
<i>Colorectal Cancer</i>	257	0.4%	204	0.4%	0.031	0.005
<i>Endometrial Cancer</i>	82	0.1%	75	0.1%	-0.010	-0.003
<i>Lung Cancer</i>	149	0.3%	132	0.3%	-0.009	-0.002
<i>Prostate Cancer</i>	616	1.0%	532	1.1%	-0.011	-0.001
<i>Urologic Cancer</i>	151	0.3%	136	0.3%	-0.014	-0.003
<i>Cataract</i>	4,782	8.1%	3,820	7.6%	0.532	0.020
<i>Chronic Kidney Disease</i>	2,558	4.3%	2,247	4.5%	-0.119	-0.006
<i>Chronic Obstructive Pulmonary Disorder</i>	4,055	6.9%	3,700	7.3%	-0.462	-0.018
<i>Depression/Bipolar/Other Mood Disorders</i>	8,780	14.9%	7,548	15.0%	-0.083	-0.002
<i>Diabetes</i>	6,374	10.8%	5,378	10.7%	0.141	0.005
<i>Glaucoma</i>	2,207	3.7%	1,808	3.6%	0.156	0.008
<i>Heart Failure and Nonischemic Heart Disease</i>	1,579	2.7%	1,359	2.7%	-0.018	-0.001
<i>Hepatic Disorders</i>	2,443	4.1%	2,085	4.1%	0.007	0.000
<i>Hip/Pelvic Fracture</i>	78	0.1%	73	0.1%	-0.013	-0.003
<i>Hyperlipidemia</i>	16,815	28.5%	14,101	28.0%	0.544	0.012
<i>Hypertension</i>	16,773	28.4%	13,815	27.4%	1.040	0.023
<i>Hypothyroidism</i>	6,475	11.0%	5,178	10.3%	0.709	0.023
<i>Ischemic Heart Disease</i>	4,068	6.9%	3,250	6.4%	0.452	0.018
<i>NonAlzheimers Dementia</i>	378	0.6%	304	0.6%	0.038	0.005
<i>Osteoporosis</i>	1,851	3.1%	1,532	3.0%	0.100	0.006
<i>Parkinsonism</i>	112	0.2%	112	0.2%	-0.032	-0.007
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,702	16.4%	8,042	15.9%	0.500	0.014

**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	876	1.5%	658	1.3%	0.180	0.015
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	412	0.7%	386	0.8%	-0.067	-0.008
Evidence of Any High Risk Marker	17,509	29.7%	15,306	30.3%	-0.669	-0.015
<i>High Risk Component: Blood Disorders</i>	17	0.0%	19	0.0%	-0.009	-0.005
<i>High Risk Component: Chronic Lung Disease</i>	468	0.8%	304	0.6%	0.191	0.023
<i>High Risk Component: Immunocompromised</i>	6,072	10.3%	5,015	9.9%	0.349	0.012
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,170	2.0%	1,068	2.1%	-0.134	-0.009
<i>High Risk Component: Obesity</i>	10,749	18.2%	9,335	18.5%	-0.288	-0.007
<i>High Risk Component: Tobacco or Nicotine Use</i>	6,492	11.0%	5,868	11.6%	-0.630	-0.020
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	11,758	19.9%	8,452	16.8%	3.172	0.082
Baloxavir Use Prior to Washout	232	0.4%	31	0.1%	0.332	0.070
Oseltamivir Use Prior to Washout	11,914	20.2%	8,598	17.0%	3.147	0.081
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,109	1.9%	931	1.8%	0.034	0.003
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	162	0.3%	155	0.3%	-0.033	-0.006
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>17</b>	<b>0.0%</b>	<b>2,677</b>	<b>5.3%</b>	<b>-5.278</b>	<b>-0.332</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	47,482	94.1%	NaN	NaN



**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	524	0.9%	47,439	94.0%	-93.149	-5.172
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,586	4.4%	2,081	4.1%	0.257	0.013
<i>Influenza Vaccination in Prior 400 Days</i>	20,323	34.4%	16,575	32.9%	1.585	0.034
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	7,915	13.4%	7,661	15.2%	-1.773	-0.051
<i>Evidence of COVID Three Months Prior</i>	431	0.7%	400	0.8%	-0.063	-0.007
<i>Evidence of COVID Two Months Prior</i>	302	0.5%	257	0.5%	0.002	0.000
<i>Evidence of COVID One Month Prior</i>	1,469	2.5%	1,303	2.6%	-0.093	-0.006
Hospitalization Days -400 to -11	3,148	5.3%	2,722	5.4%	-0.061	-0.003
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	59,008	100.0%	50,447	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	173	0.3%	183	0.4%	-0.070	-0.012
<i>Evidence of Influenza Three Days Prior</i>	56,196	95.2%	46,890	92.9%	2.286	0.097
<i>Influenza Diagnosis Days -3 to 0</i>	56,178	95.2%	46,852	92.9%	2.330	0.099
<i>Positive Flu Lab Days -3 to 0</i>	329	0.6%	323	0.6%	-0.083	-0.011
<a href="#">Influenza Testing in Prior Six Months</a>	43,969	74.5%	33,516	66.4%	8.076	0.178
<i>Evidence of COVID Three Days Prior</i>	1,298	2.2%	1,149	2.3%	-0.078	-0.005
<i>COVID Diagnosis Days -3 to 0</i>	1,218	2.1%	1,061	2.1%	-0.039	-0.003
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	126	0.2%	-0.053	-0.011
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	13.9	16.6	13.7	16.7	0.271	0.016
<i>encounters</i>	0.4	1.1	0.4	1.2	-0.039	-0.035

**Table 1s. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	-0.001	-0.004
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.6	8.9	2.8	10.1	-0.187	-0.020
<i>Mean number of filled prescriptions</i>	21.0	25.0	19.6	24.0	1.357	0.055
Mean number of generics dispensed	6.9	5.9	6.6	5.8	0.310	0.053

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	47,201	80.0%	47,201	93.6%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	40.7	15.8	40.8	15.9	-0.125	-0.008
Age						
12-18 years	9,429	20.0%	9,140	19.4%	0.612	0.015
19-44 years	18,888	40.0%	19,143	40.6%	-0.540	-0.011
45-64 years	11,448	24.3%	11,467	24.3%	-0.040	-0.001
≥ 65 years	7,436	15.8%	7,451	15.8%	-0.032	-0.001
Sex						
Female	25,047	53.1%	25,082	53.1%	-0.074	-0.001
Male	22,154	46.9%	22,119	46.9%	0.074	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	66	0.1%	64	0.1%	0.004	0.001
Asian	212	0.4%	222	0.5%	-0.021	-0.003
Black or African American	782	1.7%	782	1.7%	0.000	0.000
Multi-racial	179	0.4%	170	0.4%	0.019	0.003
Native Hawaiian or Other Pacific Islander	26	0.1%	25	0.1%	0.002	0.001
Unknown	37,214	78.8%	37,251	78.9%	-0.078	-0.002
White	8,722	18.5%	8,687	18.4%	0.074	0.002
Hispanic origin						
Yes	811	1.7%	1,044	2.2%	-0.494	-0.036
No	8,855	18.8%	8,816	18.7%	0.083	0.002
Unknown	37,535	79.5%	37,341	79.1%	0.411	0.010

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>ZCTA Social Deprivation Index Score, National Quartile<sup>5</sup></i>						
Q1 (Least deprived)	15,580	33.0%	15,520	32.9%	0.127	0.003
Q2	12,331	26.1%	12,304	26.1%	0.057	0.001
Q3	11,455	24.3%	11,526	24.4%	-0.150	-0.004
Q4 (Most deprived)	7,746	16.4%	7,768	16.5%	-0.047	-0.001
Unknown	85	0.2%	83	0.2%	0.004	0.001
<i>Year</i>						
2018	351	0.7%	831	1.8%	-1.017	-0.092
2019	11,488	24.3%	11,886	25.2%	-0.843	-0.020
2020	19,590	41.5%	18,600	39.4%	2.097	0.043
2021	3,129	6.6%	3,044	6.4%	0.180	0.007
2022	12,384	26.2%	12,464	26.4%	-0.169	-0.004
2023	259	0.5%	376	0.8%	-0.248	-0.030
<i>Season<sup>6</sup></i>						
Flu Season 2018	6,627	14.0%	6,629	14.0%	-0.004	-0.000
Flu Season 2019	24,124	51.1%	24,050	51.0%	0.157	0.003
Flu Season 2020	1,641	3.5%	1,661	3.5%	-0.042	-0.002
Flu Season 2021	6,085	12.9%	6,100	12.9%	-0.032	-0.001
Flu Season 2022	8,724	18.5%	8,761	18.6%	-0.078	-0.002
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>						
	0.6	1.4	0.7	1.4	-0.051	-0.036
<i>Acute Myocardial Infarction</i>	198	0.4%	205	0.4%	-0.015	-0.002

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Alzheimers Disease</i>	95	0.2%	111	0.2%	-0.034	-0.007
<i>Anemia</i>	3,524	7.5%	3,788	8.0%	-0.559	-0.021
<i>Asthma</i>	4,131	8.8%	4,440	9.4%	-0.655	-0.023
<i>Atrial Fibrillation or Flutter</i>	1,268	2.7%	1,357	2.9%	-0.189	-0.011
<i>Benign Prostatic Hyperplasia</i>	1,764	3.7%	1,886	4.0%	-0.258	-0.013
<i>Breast Cancer</i>	669	1.4%	627	1.3%	0.089	0.008
<i>Colorectal Cancer</i>	172	0.4%	193	0.4%	-0.044	-0.007
<i>Endometrial Cancer</i>	59	0.1%	63	0.1%	-0.008	-0.002
<i>Lung Cancer</i>	102	0.2%	115	0.2%	-0.028	-0.006
<i>Prostate Cancer</i>	457	1.0%	476	1.0%	-0.040	-0.004
<i>Urologic Cancer</i>	105	0.2%	125	0.3%	-0.042	-0.009
<i>Cataract</i>	3,474	7.4%	3,480	7.4%	-0.013	-0.000
<i>Chronic Kidney Disease</i>	1,835	3.9%	1,992	4.2%	-0.333	-0.017
<i>Chronic Obstructive Pulmonary Disorder</i>	2,939	6.2%	3,269	6.9%	-0.699	-0.028
<i>Depression/Bipolar/Other Mood Disorders</i>	6,665	14.1%	6,835	14.5%	-0.360	-0.010
<i>Diabetes</i>	4,547	9.6%	4,888	10.4%	-0.722	-0.024
<i>Glaucoma</i>	1,578	3.3%	1,649	3.5%	-0.150	-0.008
<i>Heart Failure and Nonischemic Heart Disease</i>	1,052	2.2%	1,207	2.6%	-0.328	-0.021
<i>Hepatic Disorders</i>	1,747	3.7%	1,889	4.0%	-0.301	-0.016
<i>Hip/Pelvic Fracture</i>	59	0.1%	67	0.1%	-0.017	-0.005
<i>Hyperlipidemia</i>	12,396	26.3%	12,987	27.5%	-1.252	-0.028
<i>Hypertension</i>	12,248	25.9%	12,636	26.8%	-0.822	-0.019
<i>Hypothyroidism</i>	4,626	9.8%	4,809	10.2%	-0.388	-0.013

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Ischemic Heart Disease</i>	2,839	6.0%	2,909	6.2%	-0.148	-0.006
<i>NonAlzheimers Dementia</i>	275	0.6%	268	0.6%	0.015	0.002
<i>Osteoporosis</i>	1,306	2.8%	1,404	3.0%	-0.208	-0.012
<i>Parkinsonism</i>	76	0.2%	105	0.2%	-0.061	-0.014
<i>Rheumatoid Arthritis/Osteoarthritis</i>	6,898	14.6%	7,293	15.5%	-0.837	-0.023
<i>Stroke/Transient Ischemic Attack</i>	591	1.3%	591	1.3%	0.000	0.000
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	280	0.6%	318	0.7%	-0.081	-0.010
Evidence of Any High Risk Marker	13,019	27.6%	13,973	29.6%	-2.021	-0.045
<i>High Risk Component: Blood Disorders</i>	13	0.0%	18	0.0%	-0.011	-0.006
<i>High Risk Component: Chronic Lung Disease</i>	340	0.7%	283	0.6%	0.121	0.015
<i>High Risk Component: Immunocompromised</i>	4,437	9.4%	4,548	9.6%	-0.235	-0.008
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	869	1.8%	965	2.0%	-0.203	-0.015
<i>High Risk Component: Obesity</i>	7,995	16.9%	8,547	18.1%	-1.169	-0.031
<i>High Risk Component: Tobacco or Nicotine Use</i>	4,735	10.0%	5,286	11.2%	-1.167	-0.038
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	9,364	19.8%	7,926	16.8%	3.047	0.079
Baloxavir Use Prior to Washout	188	0.4%	29	0.1%	0.337	0.070
Oseltamivir Use Prior to Washout	9,491	20.1%	8,059	17.1%	3.034	0.078
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	906	1.9%	857	1.8%	0.104	0.008

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	106	0.2%	132	0.3%	-0.055	-0.011
Oseltamivir Days Supply ≥ 7 Days 0 to 7	13	0.0%	2,494	5.3%	-5.256	-0.331
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	44,454	94.2%	NaN	NaN
Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30	419	0.9%	44,417	94.1%	-93.214	-5.199
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	1,877	4.0%	1,870	4.0%	0.015	0.001
<i>Influenza Vaccination in Prior 400 Days</i>	15,683	33.2%	15,324	32.5%	0.761	0.016
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	6,766	14.3%	6,976	14.8%	-0.445	-0.013
<i>Evidence of COVID Three Months Prior</i>	366	0.8%	345	0.7%	0.044	0.005
<i>Evidence of COVID Two Months Prior</i>	243	0.5%	223	0.5%	0.042	0.006
<i>Evidence of COVID One Month Prior</i>	1,182	2.5%	1,188	2.5%	-0.013	-0.001
Hospitalization Days -400 to -11	2,135	4.5%	2,335	4.9%	-0.424	-0.020
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	47,201	100.0%	47,201	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	137	0.3%	164	0.3%	-0.057	-0.010
Evidence of Influenza Three Days Prior	44,996	95.3%	43,920	93.0%	2.280	0.098
Influenza Diagnosis Days -3 to 0	44,983	95.3%	43,884	93.0%	2.328	0.099
Positive Flu Lab Days -3 to 0	247	0.5%	297	0.6%	-0.106	-0.014
Influenza Testing in Prior Six Months	35,019	74.2%	31,575	66.9%	7.296	0.161

**Table 1t. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Evidence of COVID Three Days Prior	1,042	2.2%	1,048	2.2%	-0.013	-0.001
COVID Diagnosis Days -3 to 0	978	2.1%	963	2.0%	0.032	0.002
IP Legacy COVID Diagnosis Days -3 to 0	0	0.0%	0	0.0%	NaN	NaN
Positive COVID Lab Days -3 to 0	90	0.2%	123	0.3%	-0.070	-0.015
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	12.9	15.9	13.2	16.1	-0.299	-0.019
<i>encounters</i>	0.3	1.0	0.4	1.0	-0.035	-0.034
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	-0.006	-0.019
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.4	7.8	2.6	8.9	-0.197	-0.024
<i>Mean number of filled prescriptions</i>	18.8	22.4	19.1	23.6	-0.353	-0.015
Mean number of generics dispensed	6.4	5.5	6.4	5.7	-0.014	-0.002

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

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<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	13,202	100.0%	721,471	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
<i>Age (years)</i>	15.4	2.0	14.9	2.0	0.479	0.243
Age						
12-18 years	13,202	100.0%	721,471	100.0%	0.000	NaN
Sex						
Female	6,322	47.9%	346,513	48.0%	-0.142	-0.003
Male	6,880	52.1%	374,958	52.0%	0.142	0.003
Race <sup>4</sup>						
American Indian or Alaska Native	*****	*****	5,850	0.8%	-0.690	-0.101
Asian	43	0.3%	15,181	2.1%	-1.778	-0.163
Black or African American	166	1.3%	62,199	8.6%	-7.364	-0.345
Multi-racial	57	0.4%	4,707	0.7%	-0.221	-0.030
Native Hawaiian or Other Pacific Islander	*****	*****	2,111	0.3%	-0.255	-0.063
Unknown	11,947	90.5%	449,703	62.3%	28.162	0.703
White	968	7.3%	181,720	25.2%	-17.855	-0.499
Hispanic origin						
Yes	658	5.0%	174,796	24.2%	-19.244	-0.566
No	1,010	7.7%	260,491	36.1%	-28.455	-0.733
Unknown	11,534	87.4%	286,184	39.7%	47.699	1.141
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	5,335	40.4%	146,905	20.4%	20.049	0.447
Q2	3,250	24.6%	149,412	20.7%	3.908	0.093
Q3	2,686	20.3%	181,448	25.1%	-4.804	-0.115

**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q4 (Most deprived)	1,900	14.4%	237,354	32.9%	-18.507	-0.446
Unknown	31	0.2%	674	0.1%	0.141	0.035
Year						
2018	83	0.6%	26,358	3.7%	-3.025	-0.210
2019	3,570	27.0%	374,233	51.9%	-24.829	-0.525
2020	4,717	35.7%	240,624	33.4%	2.378	0.050
2021	837	6.3%	10,608	1.5%	4.870	0.253
2022	3,952	29.9%	67,405	9.3%	20.592	0.537
2023	43	0.3%	2,243	0.3%	0.015	0.003
Season <sup>6</sup>						
Flu Season 2018	2,205	16.7%	308,303	42.7%	-26.031	-0.594
Flu Season 2019	6,092	46.1%	329,868	45.7%	0.423	0.008
Flu Season 2020	182	1.4%	4,047	0.6%	0.818	0.084
Flu Season 2021	2,046	15.5%	27,633	3.8%	11.668	0.403
Flu Season 2022	2,677	20.3%	51,620	7.2%	13.122	0.389
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.3	0.6	0.3	0.7	-0.047	-0.074
<i>Acute Myocardial Infarction</i>	*****	*****	47	0.0%	0.001	0.001
<i>Alzheimers Disease</i>	0	0.0%	*****	*****	NaN	NaN
<i>Anemia</i>	214	1.6%	16,401	2.3%	-0.652	-0.047
<i>Asthma</i>	1,280	9.7%	90,092	12.5%	-2.792	-0.089
<i>Atrial Fibrillation or Flutter</i>	2	0.0%	112	0.0%	-0.000	-0.000
<i>Benign Prostatic Hyperplasia</i>	*****	*****	24	0.0%	0.004	0.006
<i>Breast Cancer</i>	0	0.0%	30	0.0%	NaN	NaN

**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Colorectal Cancer</i>	0	0.0%	22	0.0%	NaN	NaN
<i>Endometrial Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Lung Cancer</i>	0	0.0%	34	0.0%	NaN	NaN
<i>Prostate Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Urologic Cancer</i>	*****	*****	102	0.0%	0.001	0.001
<i>Cataract</i>	12	0.1%	744	0.1%	-0.012	-0.004
<i>Chronic Kidney Disease</i>	25	0.2%	1,961	0.3%	-0.082	-0.017
<i>Chronic Obstructive Pulmonary Disorder</i>	171	1.3%	12,956	1.8%	-0.501	-0.041
<i>Depression/Bipolar/Other Mood Disorders</i>	1,161	8.8%	68,359	9.5%	-0.681	-0.024
<i>Diabetes</i>	98	0.7%	6,860	1.0%	-0.209	-0.023
<i>Glaucoma</i>	50	0.4%	4,582	0.6%	-0.256	-0.036
<i>Heart Failure and Nonischemic Heart Disease</i>	*****	*****	668	0.1%	-0.055	-0.021
<i>Hepatic Disorders</i>	66	0.5%	4,695	0.7%	-0.151	-0.020
<i>Hip/Pelvic Fracture</i>	22	0.2%	801	0.1%	0.056	0.015
<i>Hyperlipidemia</i>	189	1.4%	14,534	2.0%	-0.583	-0.045
<i>Hypertension</i>	63	0.5%	6,312	0.9%	-0.398	-0.049
<i>Hypothyroidism</i>	128	1.0%	7,206	1.0%	-0.029	-0.003
<i>Ischemic Heart Disease</i>	*****	*****	174	0.0%	0.036	0.018
<i>NonAlzheimers Dementia</i>	*****	*****	161	0.0%	-0.007	-0.005
<i>Osteoporosis</i>	*****	*****	275	0.0%	0.030	0.013
<i>Parkinsons Disease or Secondary Parkinsonism</i>	0	0.0%	15	0.0%	NaN	NaN
<i>Rheumatoid Arthritis/Osteoarthritis</i>	107	0.8%	3,508	0.5%	0.324	0.040
<i>Stroke/Transient Ischemic Attack</i>	*****	*****	560	0.1%	-0.017	-0.006
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	19	0.1%	1,860	0.3%	-0.114	-0.025

**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Evidence of Any High Risk Marker</i>	873	6.6%	73,146	10.1%	-3.526	-0.128
<i>High Risk Component: Blood Disorders</i>	0	0.0%	649	0.1%	NaN	NaN
<i>High Risk Component: Chronic Lung Disease</i>	38	0.3%	2,094	0.3%	-0.002	-0.000
<i>High Risk Component: Immunocompromised</i>	394	3.0%	18,701	2.6%	0.392	0.024
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	369	2.8%	30,010	4.2%	-1.365	-0.075
<i>High Risk Component: Obesity</i>	301	2.3%	29,767	4.1%	-1.846	-0.105
<i>Use</i>	113	0.9%	9,336	1.3%	-0.438	-0.042
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	3,794	28.7%	157,322	21.8%	6.932	0.160
<i>Baloxavir Use Prior to Washout</i>	100	0.8%	166	0.0%	0.734	0.118
<i>Oseltamivir Use Prior to Washout</i>	3,851	29.2%	159,163	22.1%	7.109	0.163
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	500	3.8%	39,308	5.4%	-1.661	-0.079
<i>Baloxavir Use Days -183 to -1</i>	19	0.1%	31	0.0%	0.140	0.051
<i>Oseltamivir Use Days -183 to -1</i>	48	0.4%	2,786	0.4%	-0.023	-0.004
<i>Aspirin or salicylate-containing medicines</i>	*****	*****	286	0.0%	-0.024	-0.015
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	*****	*****	92,606	12.8%	-12.798	-0.540
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	588,224	81.5%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	106	0.8%	587,619	81.4%	-80.644	-2.860
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	22	0.2%	1,133	0.2%	0.010	0.002

**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir	Oseltamivir	Absolute Difference	Standardized Difference		
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Influenza Vaccination in Prior 400 Days</i>	4,129	31.3%	171,928	23.8%	7.445	0.167
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	1,857	14.1%	32,224	4.5%	9.600	0.336
<i>Evidence of COVID Three Months Prior</i>	75	0.6%	1,163	0.2%	0.407	0.068
<i>Evidence of COVID Two Months Prior</i>	53	0.4%	743	0.1%	0.298	0.060
<i>Evidence of COVID One Month Prior</i>	88	0.7%	1,798	0.2%	0.417	0.062
Hospitalization Days -400 to -11	213	1.6%	14,990	2.1%	-0.464	-0.035
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,893	82.5%	536,827	74.4%	8.103	0.198
<i>COVID Severe Syndrome</i>	*****	*****	105	0.0%	0.001	0.000
<i>Evidence of Influenza Three Days Prior</i>	10,623	80.5%	502,832	69.7%	10.770	0.251
<i>Influenza Diagnosis Days -3 to 0</i>	10,622	80.5%	502,734	69.7%	10.776	0.251
<i>Positive Flu Lab Days -3 to 0</i>	42	0.3%	733	0.1%	0.217	0.047
<i>Influenza Testing in Prior Six Months</i>	8,616	65.3%	353,377	49.0%	16.283	0.334
<i>Evidence of COVID Three Days Prior</i>	59	0.4%	1,434	0.2%	0.248	0.044
<i>COVID Diagnosis Days -3 to 0</i>	56	0.4%	1,360	0.2%	0.236	0.043
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	*****	*****	93	0.0%	0.010	0.007
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	9.9	12.9	10.6	16.0	-0.704	-0.048
<i>Mean number of emergency room encounters</i>	0.2	0.7	0.5	1.0	-0.213	-0.247
<i>Mean number of inpatient hospital encounters</i>	0.0	0.2	0.0	0.3	-0.008	-0.037
<i>Mean number of non-acute institutional encounters</i>	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.1	11.9	5.5	27.5	-3.433	-0.162
<i>Mean number of filled prescriptions</i>	8.2	12.3	9.1	15.2	-0.956	-0.069

**Table 1u. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of generics dispensed	3.7	3.6	3.9	4.0	-0.192	-0.051

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance					
	Baloxavir	Oseltamivir	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Absolute Difference	Standardized Difference
Unique patients	13,139	99.5%	13,139	1.8%	N/A	N/A		
<b>Demographic Characteristics</b>								
Age (years)	15.4	2.0	15.4	2.0	0.002	0.001		
Age								
12-18 years	13,139	100.0%	13,139	100.0%	0.000	NaN		
Sex								
Female	6,285	47.8%	6,212	47.3%	0.556	0.011		
Male	6,854	52.2%	6,927	52.7%	-0.556	-0.011		
Race <sup>4</sup>								
American Indian or Alaska Native	*****	*****	*****	*****	0.015	0.005		
Asian	43	0.3%	43	0.3%	0.000	0.000		
Black or African American	166	1.3%	178	1.4%	-0.091	-0.008		
Multi-racial	57	0.4%	59	0.4%	-0.015	-0.002		
Native Hawaiian or Other Pacific Islander	*****	*****	*****	*****	-0.023	-0.010		
Unknown	11,884	90.4%	11,874	90.4%	0.076	0.003		
White	968	7.4%	963	7.3%	0.038	0.001		
Hispanic origin								
Yes	658	5.0%	714	5.4%	-0.426	-0.019		
No	1,010	7.7%	1,052	8.0%	-0.320	-0.012		
Unknown	11,471	87.3%	11,373	86.6%	0.746	0.022		
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>								
Q1 (Least deprived)	5,314	40.4%	5,329	40.6%	-0.114	-0.002		
Q2	3,231	24.6%	3,169	24.1%	0.472	0.011		
Q3	2,677	20.4%	2,708	20.6%	-0.236	-0.006		

**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q4 (Most deprived)	1,887	14.4%	1,899	14.5%	-0.091	-0.003
Unknown	30	0.2%	33	0.3%	-0.023	-0.005
<b>Year</b>						
2018	82	0.6%	227	1.7%	-1.104	-0.103
2019	3,562	27.1%	3,656	27.8%	-0.715	-0.016
2020	4,702	35.8%	4,542	34.6%	1.218	0.026
2021	827	6.3%	831	6.3%	-0.030	-0.001
2022	3,923	29.9%	3,837	29.2%	0.655	0.014
2023	43	0.3%	46	0.4%	-0.023	-0.004
<b>Season<sup>6</sup></b>						
Flu Season 2018	2,199	16.7%	2,322	17.7%	-0.936	-0.025
Flu Season 2019	6,075	46.2%	6,028	45.9%	0.358	0.007
Flu Season 2020	181	1.4%	172	1.3%	0.068	0.006
Flu Season 2021	2,025	15.4%	2,030	15.5%	-0.038	-0.001
Flu Season 2022	2,659	20.2%	2,587	19.7%	0.548	0.014
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.3	0.6	0.3	0.7	-0.036	-0.056
<i>Acute Myocardial Infarction</i>	*****	*****	0	0.0%	NaN	NaN
<i>Alzheimers Disease</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Anemia</i>	212	1.6%	285	2.2%	-0.556	-0.041
<i>Asthma</i>	1,272	9.7%	1,375	10.5%	-0.784	-0.026
<i>Atrial Fibrillation or Flutter</i>	*****	*****	*****	*****	0.008	0.007
<i>Benign Prostatic Hyperplasia</i>	*****	*****	*****	*****	-0.008	-0.007
<i>Breast Cancer</i>	0	0.0%	*****	*****	NaN	NaN



**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Colorectal Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Endometrial Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Lung Cancer</i>	0	0.0%	*****	*****	NaN	NaN
<i>Prostate Cancer</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Urologic Cancer</i>	*****	*****	*****	*****	-0.008	-0.006
<i>Cataract</i>	12	0.1%	16	0.1%	-0.030	-0.009
<i>Chronic Kidney Disease</i>	25	0.2%	26	0.2%	-0.008	-0.002
<i>Chronic Obstructive Pulmonary Disorder</i>	170	1.3%	230	1.8%	-0.457	-0.037
<i>Depression/Bipolar/Other Mood Disorders</i>	1,149	8.7%	1,294	9.8%	-1.104	-0.038
<i>Diabetes</i>	97	0.7%	122	0.9%	-0.190	-0.021
<i>Glaucoma</i>	50	0.4%	65	0.5%	-0.114	-0.017
<i>Heart Failure and Nonischemic Heart Disease</i>	*****	*****	*****	*****	-0.008	-0.004
<i>Hepatic Disorders</i>	63	0.5%	64	0.5%	-0.008	-0.001
<i>Hip/Pelvic Fracture</i>	22	0.2%	25	0.2%	-0.023	-0.005
<i>Hyperlipidemia</i>	187	1.4%	213	1.6%	-0.198	-0.016
<i>Hypertension</i>	63	0.5%	101	0.8%	-0.289	-0.037
<i>Hypothyroidism</i>	126	1.0%	113	0.9%	0.099	0.010
<i>Ischemic Heart Disease</i>	*****	*****	*****	*****	0.023	0.010
<i>NonAlzheimers Dementia</i>	*****	*****	0	0.0%	NaN	NaN
<i>Osteoporosis</i>	*****	*****	*****	*****	0.030	0.014
<i>Parkinsons Disease or Secondary Parkinsonism</i>	0	0.0%	*****	*****	NaN	NaN
<i>Rheumatoid Arthritis/Osteoarthritis</i>	105	0.8%	108	0.8%	-0.023	-0.003
<i>Stroke/Transient Ischemic Attack</i>	*****	*****	*****	*****	-0.008	-0.003
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	19	0.1%	31	0.2%	-0.091	-0.021

**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Evidence of Any High Risk Marker	865	6.6%	1,022	7.8%	-1.195	-0.046
<i>High Risk Component: Blood Disorders</i>	0	0.0%	*****	*****	NaN	NaN
<i>High Risk Component: Chronic Lung Disease</i>	38	0.3%	38	0.3%	0.000	0.000
<i>High Risk Component: Immunocompromised</i>	388	3.0%	392	3.0%	-0.030	-0.002
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	365	2.8%	407	3.1%	-0.320	-0.019
<i>High Risk Component: Obesity</i>	298	2.3%	355	2.7%	-0.434	-0.028
<i>Use</i>	112	0.9%	149	1.1%	-0.282	-0.028
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	3,773	28.7%	3,203	24.4%	4.338	0.098
Baloxavir Use Prior to Washout	100	0.8%	19	0.1%	0.616	0.092
Oseltamivir Use Prior to Washout	3,829	29.1%	3,259	24.8%	4.338	0.098
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	497	3.8%	485	3.7%	0.091	0.005
Baloxavir Use Days -183 to -1	19	0.1%	*****	*****	0.114	0.039
Oseltamivir Use Days -183 to -1	48	0.4%	63	0.5%	-0.114	-0.018
Aspirin or salicylate-containing medicines	*****	*****	*****	*****	-0.008	-0.006
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	*****	*****	1,863	14.2%	-14.141	-0.572
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	10,900	83.0%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	106	0.8%	10,878	82.8%	-81.985	-2.989
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	21	0.2%	34	0.3%	-0.099	-0.022

**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Influenza Vaccination in Prior 400 Days</i>	4,111	31.3%	4,016	30.6%	0.723	0.016
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	1,850	14.1%	1,867	14.2%	-0.129	-0.004
<i>Evidence of COVID Three Months Prior</i>	75	0.6%	63	0.5%	0.091	0.013
<i>Evidence of COVID Two Months Prior</i>	53	0.4%	49	0.4%	0.030	0.005
<i>Evidence of COVID One Month Prior</i>	88	0.7%	103	0.8%	-0.114	-0.013
<i>Hospitalization Days -400 to -11</i>	209	1.6%	265	2.0%	-0.426	-0.032
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,839	82.5%	9,956	75.8%	6.720	0.166
<i>COVID Severe Syndrome</i>	*****	*****	*****	*****	-0.038	-0.021
<i>Evidence of Influenza Three Days Prior</i>	10,572	80.5%	9,491	72.2%	8.227	0.195
<i>Influenza Diagnosis Days -3 to 0</i>	10,571	80.5%	9,490	72.2%	8.227	0.195
<i>Positive Flu Lab Days -3 to 0</i>	40	0.3%	27	0.2%	0.099	0.020
<i>Influenza Testing in Prior Six Months</i>	8,575	65.3%	7,169	54.6%	10.701	0.220
<i>Evidence of COVID Three Days Prior</i>	59	0.4%	78	0.6%	-0.145	-0.020
<i>COVID Diagnosis Days -3 to 0</i>	56	0.4%	73	0.6%	-0.129	-0.019
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	*****	*****	*****	*****	-0.023	-0.012
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	9.8	12.9	9.9	13.7	-0.081	-0.006
<i>Mean number of emergency room encounters</i>	0.2	0.7	0.3	0.8	-0.037	-0.052
<i>Mean number of inpatient hospital encounters</i>	0.0	0.2	0.0	0.2	-0.005	-0.025
<i>Mean number of non-acute institutional encounters</i>	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	2.1	11.9	2.6	16.4	-0.478	-0.033
<i>Mean number of filled prescriptions</i>	8.1	12.2	8.6	13.0	-0.446	-0.035

**Table 1v. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of generics dispensed	3.7	3.5	3.7	3.7	-0.003	-0.001

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,019	100.0%	2,741,030	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
<i>Age (years)</i>	48.8	13.5	52.3	13.8	-3.517	-0.257
Age						
19-44 years	29,271	45.7%	1,122,827	41.0%	4.759	0.096
45-64 years	20,193	31.5%	744,482	27.2%	4.382	0.096
≥ 65 years	14,555	22.7%	873,721	31.9%	-9.140	-0.206
Sex						
Female	35,385	55.3%	1,691,014	61.7%	-6.420	-0.131
Male	28,634	44.7%	1,050,016	38.3%	6.420	0.131
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	14,666	0.5%	-0.393	-0.068
Asian	430	0.7%	71,825	2.6%	-1.949	-0.154
Black or African American	1,175	1.8%	179,506	6.5%	-4.713	-0.237
Multi-racial	208	0.3%	12,318	0.4%	-0.124	-0.020
Native Hawaiian or Other Pacific Islander	40	0.1%	5,323	0.2%	-0.132	-0.037
Unknown	46,510	72.7%	1,337,896	48.8%	23.840	0.503
White	15,565	24.3%	1,119,496	40.8%	-16.529	-0.358
Hispanic origin						
Yes	773	1.2%	167,565	6.1%	-4.906	-0.263
No	15,798	24.7%	1,303,415	47.6%	-22.875	-0.490
Unknown	47,448	74.1%	1,270,050	46.3%	27.781	0.592
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	715,077	26.1%	5.420	0.120

**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,098	26.7%	667,788	24.4%	2.345	0.054
Q3	15,990	25.0%	681,611	24.9%	0.110	0.003
Q4 (Most deprived)	10,661	16.7%	659,542	24.1%	-7.409	-0.185
Unknown	94	0.1%	3,401	0.1%	0.023	0.006
<b>Year</b>						
2018	527	0.8%	137,030	5.0%	-4.176	-0.250
2019	14,821	23.2%	1,120,868	40.9%	-17.741	-0.387
2020	27,204	42.5%	921,689	33.6%	8.868	0.183
2021	4,470	7.0%	79,371	2.9%	4.087	0.189
2022	16,598	25.9%	459,340	16.8%	9.169	0.225
2023	399	0.6%	22,732	0.8%	-0.206	-0.024
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	986,416	36.0%	-23.021	-0.556
Flu Season 2019	33,096	51.7%	1,168,594	42.6%	9.064	0.182
Flu Season 2020	2,715	4.2%	46,341	1.7%	2.550	0.151
Flu Season 2021	8,006	12.5%	181,114	6.6%	5.898	0.202
Flu Season 2022	11,901	18.6%	358,565	13.1%	5.508	0.151
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	1.3	2.1	-0.535	-0.281
<i>Acute Myocardial Infarction</i>	415	0.6%	27,306	1.0%	-0.348	-0.039
<i>Alzheimers Disease</i>	273	0.4%	54,576	2.0%	-1.565	-0.144
<i>Anemia</i>	6,887	10.8%	425,027	15.5%	-4.748	-0.141
<i>Asthma</i>	5,589	8.7%	302,530	11.0%	-2.307	-0.077
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	160,728	5.9%	-1.718	-0.079

**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	171,203	6.2%	-0.726	-0.031
<i>Breast Cancer</i>	1,350	2.1%	67,222	2.5%	-0.344	-0.023
<i>Colorectal Cancer</i>	341	0.5%	19,645	0.7%	-0.184	-0.023
<i>Endometrial Cancer</i>	108	0.2%	7,567	0.3%	-0.107	-0.023
<i>Lung Cancer</i>	215	0.3%	15,036	0.5%	-0.213	-0.032
<i>Prostate Cancer</i>	888	1.4%	43,210	1.6%	-0.189	-0.016
<i>Urologic Cancer</i>	212	0.3%	10,912	0.4%	-0.067	-0.011
<i>Cataract</i>	6,803	10.6%	385,696	14.1%	-3.445	-0.105
<i>Chronic Kidney Disease</i>	3,486	5.4%	239,298	8.7%	-3.285	-0.128
<i>Chronic Obstructive Pulmonary Disorder</i>	5,078	7.9%	329,155	12.0%	-4.076	-0.136
<i>Depression/Bipolar/Other Mood Disorders</i>	10,313	16.1%	574,433	21.0%	-4.848	-0.125
<i>Diabetes</i>	8,558	13.4%	524,494	19.1%	-5.767	-0.157
<i>Glaucoma</i>	3,109	4.9%	180,077	6.6%	-1.713	-0.074
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	170,901	6.2%	-2.700	-0.126
<i>Hepatic Disorders</i>	3,227	5.0%	178,986	6.5%	-1.489	-0.064
<i>Hip/Pelvic Fracture</i>	99	0.2%	7,869	0.3%	-0.132	-0.028
<i>Hyperlipidemia</i>	22,785	35.6%	1,098,880	40.1%	-4.499	-0.093
<i>Hypertension</i>	22,359	34.9%	1,159,969	42.3%	-7.393	-0.152
<i>Hypothyroidism</i>	9,004	14.1%	442,670	16.1%	-2.085	-0.058
<i>Ischemic Heart Disease</i>	5,721	8.9%	310,043	11.3%	-2.375	-0.079
<i>NonAlzheimers Dementia</i>	772	1.2%	133,828	4.9%	-3.677	-0.215
<i>Osteoporosis</i>	2,739	4.3%	167,955	6.1%	-1.849	-0.083
<i>Parkinsonism</i>	207	0.3%	24,526	0.9%	-0.571	-0.073
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,046	20.4%	681,671	24.9%	-4.491	-0.107
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	95,269	3.5%	-1.526	-0.094

**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	45,839	1.7%	-0.815	-0.073
<i>Evidence of Any High Risk Marker</i>	21,789	34.0%	1,107,103	40.4%	-6.355	-0.132
<i>High Risk Component: Blood Disorders</i>	22	0.0%	1,649	0.1%	-0.026	-0.012
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	32,755	1.2%	-0.084	-0.008
<i>High Risk Component: Immunocompromised</i>	7,957	12.4%	373,966	13.6%	-1.214	-0.036
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	128,590	4.7%	-2.758	-0.155
<i>High Risk Component: Obesity</i>	13,201	20.6%	586,355	21.4%	-0.771	-0.019
<i>Use</i>	8,253	12.9%	474,923	17.3%	-4.435	-0.124
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,560	19.6%	504,769	18.4%	1.204	0.031
<i>Baloxavir Use Prior to Washout</i>	370	0.6%	918	0.0%	0.544	0.099
<i>Oseltamivir Use Prior to Washout</i>	12,754	19.9%	510,851	18.6%	1.285	0.033
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	108,518	4.0%	-2.295	-0.139
<i>Baloxavir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Oseltamivir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Aspirin or salicylate-containing medicines</i>	224	0.3%	26,624	1.0%	-0.621	-0.077
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	43	0.1%	524,739	19.1%	-19.077	-0.684
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	2,186,943	79.8%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	616	1.0%	2,183,809	79.7%	-78.709	-2.688



**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	211,536	7.7%	-2.235	-0.090
<i>Influenza Vaccination in Prior 400 Days</i>	23,166	36.2%	1,047,935	38.2%	-2.045	-0.042
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	283,049	10.3%	5.164	0.154
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	12,033	0.4%	0.334	0.043
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	9,533	0.3%	0.193	0.029
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	32,360	1.2%	1.189	0.090
<i>Hospitalization Days -400 to -11</i>	4,030	6.3%	269,601	9.8%	-3.541	-0.130
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	75.4%	1,641,937	59.9%	15.543	0.337
<i>COVID Severe Syndrome</i>	171	0.3%	4,746	0.2%	0.094	0.020
<i>Evidence of Influenza Three Days Prior</i>	45,745	71.5%	1,492,293	54.4%	17.013	0.358
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	71.4%	1,491,488	54.4%	17.015	0.358
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	7,694	0.3%	0.169	0.028
<i>Influenza Testing in Prior Six Months</i>	35,496	55.4%	1,005,701	36.7%	18.755	0.383
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	25,433	0.9%	1.017	0.086
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	23,800	0.9%	0.956	0.083
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	2,237	0.1%	0.095	0.026
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	17.9	23.5	-2.883	-0.139
<i>encounters</i>	0.4	1.2	0.7	1.8	-0.314	-0.205
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.5	-0.057	-0.129

**Table 1w. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.3	11.2	8.7	28.5	-5.379	-0.249
<i>Mean number of filled prescriptions</i>	24.9	28.1	34.9	41.9	-9.911	-0.278
<i>Mean number of generics dispensed</i>	7.9	6.2	9.0	6.8	-1.113	-0.172

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,019	100.0%	64,019	2.3%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.8	13.7	0.039	0.003
Age						
19-44 years	29,271	45.7%	29,839	46.6%	-0.887	-0.018
45-64 years	20,193	31.5%	19,614	30.6%	0.904	0.020
≥ 65 years	14,555	22.7%	14,566	22.8%	-0.017	-0.000
Sex						
Female	35,385	55.3%	35,232	55.0%	0.239	0.005
Male	28,634	44.7%	28,787	45.0%	-0.239	-0.005
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	106	0.2%	-0.023	-0.006
Asian	430	0.7%	418	0.7%	0.019	0.002
Black or African American	1,175	1.8%	1,200	1.9%	-0.039	-0.003
Multi-racial	208	0.3%	171	0.3%	0.058	0.011
Native Hawaiian or Other Pacific Islander	40	0.1%	44	0.1%	-0.006	-0.002
Unknown	46,510	72.7%	46,517	72.7%	-0.011	-0.000
White	15,565	24.3%	15,563	24.3%	0.003	0.000
Hispanic origin						
Yes	773	1.2%	1,017	1.6%	-0.381	-0.032
No	15,798	24.7%	15,843	24.7%	-0.070	-0.002
Unknown	47,448	74.1%	47,159	73.7%	0.451	0.010
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	20,175	31.5%	-0.006	-0.000

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,098	26.7%	17,033	26.6%	0.102	0.002
Q3	15,990	25.0%	15,874	24.8%	0.181	0.004
Q4 (Most deprived)	10,661	16.7%	10,834	16.9%	-0.270	-0.007
Unknown	94	0.1%	102	0.2%	-0.012	-0.003
<b>Year</b>						
2018	527	0.8%	1,280	2.0%	-1.176	-0.100
2019	14,821	23.2%	14,976	23.4%	-0.242	-0.006
2020	27,204	42.5%	26,418	41.3%	1.228	0.025
2021	4,470	7.0%	4,143	6.5%	0.511	0.020
2022	16,598	25.9%	16,621	26.0%	-0.036	-0.001
2023	399	0.6%	581	0.9%	-0.284	-0.033
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	8,294	13.0%	0.011	0.000
Flu Season 2019	33,096	51.7%	33,238	51.9%	-0.222	-0.004
Flu Season 2020	2,715	4.2%	2,669	4.2%	0.072	0.004
Flu Season 2021	8,006	12.5%	7,821	12.2%	0.289	0.009
Flu Season 2022	11,901	18.6%	11,997	18.7%	-0.150	-0.004
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.9	1.7	-0.038	-0.022
<i>Acute Myocardial Infarction</i>	415	0.6%	458	0.7%	-0.067	-0.008
<i>Alzheimers Disease</i>	273	0.4%	365	0.6%	-0.144	-0.020
<i>Anemia</i>	6,887	10.8%	6,862	10.7%	0.039	0.001
<i>Asthma</i>	5,589	8.7%	6,047	9.4%	-0.715	-0.025
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	2,544	4.0%	0.172	0.009

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	3,462	5.4%	0.112	0.005
<i>Breast Cancer</i>	1,350	2.1%	1,286	2.0%	0.100	0.007
<i>Colorectal Cancer</i>	341	0.5%	348	0.5%	-0.011	-0.001
<i>Endometrial Cancer</i>	108	0.2%	130	0.2%	-0.034	-0.008
<i>Lung Cancer</i>	215	0.3%	219	0.3%	-0.006	-0.001
<i>Prostate Cancer</i>	888	1.4%	822	1.3%	0.103	0.009
<i>Urologic Cancer</i>	212	0.3%	184	0.3%	0.044	0.008
<i>Cataract</i>	6,803	10.6%	6,591	10.3%	0.331	0.011
<i>Chronic Kidney Disease</i>	3,486	5.4%	3,644	5.7%	-0.247	-0.011
<i>Chronic Obstructive Pulmonary Disorder</i>	5,078	7.9%	5,505	8.6%	-0.667	-0.024
<i>Depression/Bipolar/Other Mood Disorders</i>	10,313	16.1%	10,462	16.3%	-0.233	-0.006
<i>Diabetes</i>	8,558	13.4%	8,669	13.5%	-0.173	-0.005
<i>Glaucoma</i>	3,109	4.9%	2,995	4.7%	0.178	0.008
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	2,290	3.6%	-0.042	-0.002
<i>Hepatic Disorders</i>	3,227	5.0%	3,303	5.2%	-0.119	-0.005
<i>Hip/Pelvic Fracture</i>	99	0.2%	114	0.2%	-0.023	-0.006
<i>Hyperlipidemia</i>	22,785	35.6%	22,860	35.7%	-0.117	-0.002
<i>Hypertension</i>	22,359	34.9%	22,449	35.1%	-0.141	-0.003
<i>Hypothyroidism</i>	9,004	14.1%	8,608	13.4%	0.619	0.018
<i>Ischemic Heart Disease</i>	5,721	8.9%	5,371	8.4%	0.547	0.019
<i>NonAlzheimers Dementia</i>	772	1.2%	879	1.4%	-0.167	-0.015
<i>Osteoporosis</i>	2,739	4.3%	2,740	4.3%	-0.002	-0.000
<i>Parkinsonism</i>	207	0.3%	251	0.4%	-0.069	-0.012
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,046	20.4%	13,018	20.3%	0.044	0.001
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	1,250	2.0%	-0.003	-0.000

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	614	1.0%	-0.102	-0.011
Evidence of Any High Risk Marker	21,789	34.0%	22,587	35.3%	-1.247	-0.026
<i>High Risk Component: Blood Disorders</i>	22	0.0%	22	0.0%	0.000	0.000
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	675	1.1%	0.056	0.005
<i>High Risk Component: Immunocompromised</i>	7,957	12.4%	7,626	11.9%	0.517	0.016
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	1,415	2.2%	-0.276	-0.019
<i>High Risk Component: Obesity</i>	13,201	20.6%	13,557	21.2%	-0.556	-0.014
<i>Use</i>	8,253	12.9%	8,893	13.9%	-1.000	-0.029
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,560	19.6%	11,110	17.4%	2.265	0.058
Baloxavir Use Prior to Washout	370	0.6%	49	0.1%	0.501	0.088
Oseltamivir Use Prior to Washout	12,754	19.9%	11,328	17.7%	2.227	0.057
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	1,197	1.9%	-0.206	-0.016
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.3%	226	0.4%	-0.003	-0.001
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>43</b>	<b>0.1%</b>	<b>10,561</b>	<b>16.5%</b>	<b>-16.429</b>	<b>-0.625</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	53,550	83.6%	NaN	NaN
<b>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</b>	<b>616</b>	<b>1.0%</b>	<b>53,493</b>	<b>83.6%</b>	<b>-82.596</b>	<b>-3.047</b>

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	3,434	5.4%	0.119	0.005
<i>Influenza Vaccination in Prior 400 Days</i>	23,166	36.2%	22,559	35.2%	0.948	0.020
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	9,790	15.3%	0.198	0.005
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	450	0.7%	0.070	0.008
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	344	0.5%	0.003	0.000
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	1,325	2.1%	0.300	0.020
<i>Hospitalization Days -400 to -11</i>	4,030	6.3%	4,270	6.7%	-0.375	-0.015
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	75.4%	40,872	63.8%	11.601	0.254
<i>COVID Severe Syndrome</i>	171	0.3%	165	0.3%	0.009	0.002
<i>Evidence of Influenza Three Days Prior</i>	45,745	71.5%	37,696	58.9%	12.573	0.266
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	71.4%	37,672	58.8%	12.584	0.266
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	262	0.4%	0.041	0.006
<i>Influenza Testing in Prior Six Months</i>	35,496	55.4%	26,412	41.3%	14.190	0.287
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	1,073	1.7%	0.269	0.020
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	974	1.5%	0.303	0.024
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	131	0.2%	-0.028	-0.006
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	14.8	17.6	0.171	0.010
<i>encounters</i>	0.4	1.2	0.4	1.1	-0.031	-0.027
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.4	-0.006	-0.016

**Table 1x. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.4	11.0	-0.071	-0.006
<i>Mean number of filled prescriptions</i>	24.9	28.1	24.1	27.8	0.821	0.029
Mean number of generics dispensed	7.9	6.2	7.6	6.1	0.295	0.048

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	63,976	100.0%	53,458	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.2	13.8	0.568	0.042
Age						
19-44 years	29,249	45.7%	25,260	47.3%	-1.533	-0.031
45-64 years	20,179	31.5%	16,420	30.7%	0.826	0.018
$\geq$ 65 years	14,548	22.7%	11,778	22.0%	0.708	0.017
Sex						
Female	35,363	55.3%	29,266	54.7%	0.530	0.011
Male	28,613	44.7%	24,192	45.3%	-0.530	-0.011
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	78	0.1%	-0.004	-0.001
Asian	430	0.7%	387	0.7%	-0.052	-0.006
Black or African American	1,175	1.8%	1,059	2.0%	-0.144	-0.011
Multi-racial	208	0.3%	154	0.3%	0.037	0.007
Native Hawaiian or Other Pacific Islander	40	0.1%	36	0.1%	-0.005	-0.002
Unknown	46,475	72.6%	39,166	73.3%	-0.621	-0.014
White	15,557	24.3%	12,578	23.5%	0.788	0.018
Hispanic origin						
Yes	773	1.2%	922	1.7%	-0.516	-0.043
No	15,790	24.7%	12,940	24.2%	0.475	0.011
Unknown	47,413	74.1%	39,596	74.1%	0.041	0.001
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,160	31.5%	16,447	30.8%	0.746	0.016

**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,081	26.7%	14,138	26.4%	0.252	0.006
Q3	15,976	25.0%	13,399	25.1%	-0.093	-0.002
Q4 (Most deprived)	10,660	16.7%	9,381	17.5%	-0.886	-0.024
Unknown	94	0.1%	92	0.2%	-0.025	-0.006
<b>Year</b>						
2018	527	0.8%	1,044	2.0%	-1.129	-0.097
2019	14,816	23.2%	12,247	22.9%	0.249	0.006
2020	27,190	42.5%	21,604	40.4%	2.087	0.042
2021	4,465	7.0%	3,565	6.7%	0.310	0.012
2022	16,579	25.9%	14,455	27.0%	-1.126	-0.026
2023	399	0.6%	543	1.0%	-0.392	-0.043
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,298	13.0%	6,718	12.6%	0.404	0.012
Flu Season 2019	33,080	51.7%	27,133	50.8%	0.951	0.019
Flu Season 2020	2,714	4.2%	2,399	4.5%	-0.245	-0.012
Flu Season 2021	7,994	12.5%	6,709	12.6%	-0.055	-0.002
Flu Season 2022	11,890	18.6%	10,499	19.6%	-1.055	-0.027
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.8	1.7	-0.006	-0.004
<i>Acute Myocardial Infarction</i>	415	0.6%	365	0.7%	-0.034	-0.004
<i>Alzheimers Disease</i>	273	0.4%	197	0.4%	0.058	0.009
<i>Anemia</i>	6,878	10.8%	5,621	10.5%	0.236	0.008
<i>Asthma</i>	5,587	8.7%	5,118	9.6%	-0.841	-0.029
<i>Atrial Fibrillation or Flutter</i>	2,651	4.1%	2,049	3.8%	0.311	0.016

**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,532	5.5%	2,876	5.4%	0.141	0.006
<i>Breast Cancer</i>	1,349	2.1%	1,026	1.9%	0.189	0.013
<i>Colorectal Cancer</i>	341	0.5%	286	0.5%	-0.002	-0.000
<i>Endometrial Cancer</i>	107	0.2%	110	0.2%	-0.039	-0.009
<i>Lung Cancer</i>	215	0.3%	171	0.3%	0.016	0.003
<i>Prostate Cancer</i>	888	1.4%	672	1.3%	0.131	0.011
<i>Urologic Cancer</i>	212	0.3%	153	0.3%	0.045	0.008
<i>Cataract</i>	6,797	10.6%	5,355	10.0%	0.607	0.020
<i>Chronic Kidney Disease</i>	3,485	5.4%	2,973	5.6%	-0.114	-0.005
<i>Chronic Obstructive Pulmonary Disorder</i>	5,077	7.9%	4,541	8.5%	-0.559	-0.020
<i>Depression/Bipolar/Other Mood Disorders</i>	10,306	16.1%	8,696	16.3%	-0.158	-0.004
<i>Diabetes</i>	8,554	13.4%	7,258	13.6%	-0.206	-0.006
<i>Glaucoma</i>	3,109	4.9%	2,447	4.6%	0.282	0.013
<i>Heart Failure and Nonischemic Heart Disease</i>	2,259	3.5%	1,824	3.4%	0.119	0.007
<i>Hepatic Disorders</i>	3,225	5.0%	2,794	5.2%	-0.186	-0.008
<i>Hip/Pelvic Fracture</i>	99	0.2%	84	0.2%	-0.002	-0.001
<i>Hyperlipidemia</i>	22,773	35.6%	18,974	35.5%	0.103	0.002
<i>Hypertension</i>	22,342	34.9%	18,616	34.8%	0.099	0.002
<i>Hypothyroidism</i>	8,995	14.1%	7,028	13.1%	0.913	0.027
<i>Ischemic Heart Disease</i>	5,715	8.9%	4,429	8.3%	0.648	0.023
<i>NonAlzheimers Dementia</i>	770	1.2%	500	0.9%	0.268	0.026
<i>Osteoporosis</i>	2,737	4.3%	2,195	4.1%	0.172	0.009
<i>Parkinsonism</i>	207	0.3%	173	0.3%	-0.000	-0.000
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,039	20.4%	10,740	20.1%	0.291	0.007
<i>Stroke/Transient Ischemic Attack</i>	1,246	1.9%	982	1.8%	0.111	0.008

**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	478	0.9%	-0.036	-0.004
Evidence of Any High Risk Marker	21,772	34.0%	18,912	35.4%	-1.346	-0.028
<i>High Risk Component: Blood Disorders</i>	22	0.0%	16	0.0%	0.004	0.002
<i>High Risk Component: Chronic Lung Disease</i>	710	1.1%	541	1.0%	0.098	0.010
<i>High Risk Component: Immunocompromised</i>	7,949	12.4%	6,271	11.7%	0.694	0.021
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,237	1.9%	1,077	2.0%	-0.081	-0.006
<i>High Risk Component: Obesity</i>	13,191	20.6%	11,479	21.5%	-0.854	-0.021
<i>Use</i>	8,244	12.9%	7,534	14.1%	-1.207	-0.035
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,546	19.6%	8,803	16.5%	3.143	0.082
Baloxavir Use Prior to Washout	369	0.6%	40	0.1%	0.502	0.088
Oseltamivir Use Prior to Washout	12,740	19.9%	8,977	16.8%	3.121	0.081
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,064	1.7%	884	1.7%	0.009	0.001
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.4%	198	0.4%	-0.020	-0.003
Oseltamivir Days Supply $\geq$ 7 Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Day 0	0	0.0%	52,577	98.4%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Days -30 to 30	609	1.0%	52,550	98.3%	-97.350	-8.518

**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,505	5.5%	2,779	5.2%	0.280	0.012
<i>Influenza Vaccination in Prior 400 Days</i>	23,149	36.2%	18,121	33.9%	2.286	0.048
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,900	15.5%	8,370	15.7%	-0.183	-0.005
<i>Evidence of COVID Three Months Prior</i>	494	0.8%	380	0.7%	0.061	0.007
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	291	0.5%	-0.004	-0.000
<i>Evidence of COVID One Month Prior</i>	1,516	2.4%	1,211	2.3%	0.104	0.007
<i>Hospitalization Days -400 to -11</i>	4,026	6.3%	3,463	6.5%	-0.185	-0.008
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,285	75.5%	38,681	72.4%	3.116	0.071
<i>COVID Severe Syndrome</i>	170	0.3%	155	0.3%	-0.024	-0.005
<i>Evidence of Influenza Three Days Prior</i>	45,731	71.5%	35,833	67.0%	4.451	0.097
<i>Influenza Diagnosis Days -3 to 0</i>	45,714	71.5%	35,810	67.0%	4.468	0.097
<i>Positive Flu Lab Days -3 to 0</i>	288	0.5%	253	0.5%	-0.023	-0.003
<i>Influenza Testing in Prior Six Months</i>	35,487	55.5%	24,966	46.7%	8.767	0.176
<i>Evidence of COVID Three Days Prior</i>	1,244	1.9%	995	1.9%	0.083	0.006
<i>COVID Diagnosis Days -3 to 0</i>	1,167	1.8%	903	1.7%	0.135	0.010
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	124	0.2%	-0.055	-0.012
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	14.7	17.3	0.350	0.020
<i>encounters</i>	0.4	1.2	0.4	1.2	-0.040	-0.035
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.4	-0.003	-0.009

**Table 1y. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.1	9.7	0.211	0.020
<i>Mean number of filled prescriptions</i>	24.9	28.1	23.3	26.6	1.607	0.059
Mean number of generics dispensed	7.9	6.2	7.5	6.1	0.355	0.058

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq 7$  Days 0 to 7**

Patient Characteristics <sup>1,2</sup>	Medical Product		Medical Product		Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	50,764	79.3%	50,764	95.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.0	13.5	48.0	13.8	-0.004	-0.000
Age						
19-44 years	24,188	47.6%	24,212	47.7%	-0.047	-0.001
45-64 years	15,656	30.8%	15,638	30.8%	0.035	0.001
$\geq 65$ years	10,920	21.5%	10,914	21.5%	0.012	0.000
Sex						
Female	27,561	54.3%	27,575	54.3%	-0.028	-0.001
Male	23,203	45.7%	23,189	45.7%	0.028	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	67	0.1%	69	0.1%	-0.004	-0.001
Asian	323	0.6%	332	0.7%	-0.018	-0.002
Black or African American	884	1.7%	868	1.7%	0.032	0.002
Multi-racial	143	0.3%	147	0.3%	-0.008	-0.001
Native Hawaiian or Other Pacific Islander	35	0.1%	27	0.1%	0.016	0.006
Unknown	37,874	74.6%	37,851	74.6%	0.045	0.001
White	11,438	22.5%	11,470	22.6%	-0.063	-0.002
Hispanic origin						
Yes	562	1.1%	811	1.6%	-0.491	-0.042
No	11,667	23.0%	11,677	23.0%	-0.020	-0.000
Unknown	38,535	75.9%	38,276	75.4%	0.510	0.012

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq 7$  Days 0 to 7**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>ZCTA Social Deprivation Index Score, National Quartile<sup>5</sup></i>						
Q1 (Least deprived)	15,831	31.2%	15,831	31.2%	0.000	0.000
Q2	13,425	26.4%	13,452	26.5%	-0.053	-0.001
Q3	12,713	25.0%	12,720	25.1%	-0.014	-0.000
Q4 (Most deprived)	8,708	17.2%	8,676	17.1%	0.063	0.002
Unknown	82	0.2%	84	0.2%	-0.004	-0.001
<i>Year</i>						
2018	403	0.8%	980	1.9%	-1.137	-0.098
2019	11,464	22.6%	11,649	22.9%	-0.364	-0.009
2020	21,484	42.3%	20,692	40.8%	1.560	0.032
2021	3,614	7.1%	3,385	6.7%	0.451	0.018
2022	13,464	26.5%	13,558	26.7%	-0.185	-0.004
2023	335	0.7%	500	1.0%	-0.325	-0.036
<i>Season<sup>6</sup></i>						
Flu Season 2018	6,332	12.5%	6,308	12.4%	0.047	0.001
Flu Season 2019	26,095	51.4%	26,056	51.3%	0.077	0.002
Flu Season 2020	2,232	4.4%	2,234	4.4%	-0.004	-0.000
Flu Season 2021	6,358	12.5%	6,370	12.5%	-0.024	-0.001
Flu Season 2022	9,747	19.2%	9,796	19.3%	-0.097	-0.002
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>						
	0.7	1.6	0.8	1.6	-0.059	-0.037



**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq 7$  Days 0 to 7**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Acute Myocardial Infarction</i>	287	0.6%	309	0.6%	-0.043	-0.006
<i>Alzheimers Disease</i>	174	0.3%	180	0.4%	-0.012	-0.002
<i>Anemia</i>	4,953	9.8%	5,144	10.1%	-0.376	-0.013
<i>Asthma</i>	4,292	8.5%	4,680	9.2%	-0.764	-0.027
<i>Atrial Fibrillation or Flutter</i>	1,821	3.6%	1,863	3.7%	-0.083	-0.004
<i>Benign Prostatic Hyperplasia</i>	2,570	5.1%	2,660	5.2%	-0.177	-0.008
<i>Breast Cancer</i>	962	1.9%	952	1.9%	0.020	0.001
<i>Colorectal Cancer</i>	247	0.5%	262	0.5%	-0.030	-0.004
<i>Endometrial Cancer</i>	82	0.2%	104	0.2%	-0.043	-0.010
<i>Lung Cancer</i>	142	0.3%	154	0.3%	-0.024	-0.004
<i>Prostate Cancer</i>	664	1.3%	621	1.2%	0.085	0.008
<i>Urologic Cancer</i>	158	0.3%	147	0.3%	0.022	0.004
<i>Cataract</i>	5,012	9.9%	4,976	9.8%	0.071	0.002
<i>Chronic Kidney Disease</i>	2,442	4.8%	2,731	5.4%	-0.569	-0.026
<i>Chronic Obstructive Pulmonary Disorder</i>	3,738	7.4%	4,132	8.1%	-0.776	-0.029
<i>Depression/Bipolar/Other Mood Disorders</i>	7,625	15.0%	8,025	15.8%	-0.788	-0.022
<i>Diabetes</i>	6,185	12.2%	6,701	13.2%	-1.016	-0.031
<i>Glaucoma</i>	2,267	4.5%	2,287	4.5%	-0.039	-0.002
<i>Heart Failure and Nonischemic Heart Disease</i>	1,539	3.0%	1,617	3.2%	-0.154	-0.009
<i>Hepatic Disorders</i>	2,379	4.7%	2,566	5.1%	-0.368	-0.017
<i>Hip/Pelvic Fracture</i>	73	0.1%	74	0.1%	-0.002	-0.001
<i>Hyperlipidemia</i>	17,047	33.6%	17,731	34.9%	-1.347	-0.028
<i>Hypertension</i>	16,738	33.0%	17,314	34.1%	-1.135	-0.024

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq 7$  Days 0 to 7**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Hypothyroidism</i>	6,475	12.8%	6,580	13.0%	-0.207	-0.006
<i>Ischemic Heart Disease</i>	4,079	8.0%	4,036	8.0%	0.085	0.003
<i>NonAlzheimers Dementia</i>	484	1.0%	466	0.9%	0.035	0.004
<i>Osteoporosis</i>	1,974	3.9%	2,015	4.0%	-0.081	-0.004
<i>Parkinsonism</i>	133	0.3%	151	0.3%	-0.035	-0.007
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,492	18.7%	9,917	19.5%	-0.837	-0.021
<i>Stroke/Transient Ischemic Attack</i>	891	1.8%	909	1.8%	-0.035	-0.003
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	388	0.8%	399	0.8%	-0.022	-0.002
Evidence of Any High Risk Marker	16,486	32.5%	17,511	34.5%	-2.019	-0.043
<i>High Risk Component: Blood Disorders</i>	12	0.0%	15	0.0%	-0.006	-0.004
<i>High Risk Component: Chronic Lung Disease</i>	471	0.9%	506	1.0%	-0.069	-0.007
<i>High Risk Component: Immunocompromised</i>	5,874	11.6%	5,786	11.4%	0.173	0.005
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	901	1.8%	960	1.9%	-0.116	-0.009
<i>High Risk Component: Obesity</i>	10,072	19.8%	10,671	21.0%	-1.180	-0.029
<i>Use</i>	6,183	12.2%	6,904	13.6%	-1.420	-0.042
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	9,762	19.2%	8,389	16.5%	2.705	0.071
Baloxavir Use Prior to Washout	297	0.6%	39	0.1%	0.508	0.089
Oseltamivir Use Prior to Washout	9,915	19.5%	8,556	16.9%	2.677	0.069

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq$  7 Days 0 to 7**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Neuraminidase Inhibitor Antiviral Use During Washout	801	1.6%	822	1.6%	-0.041	-0.003
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	168	0.3%	168	0.3%	0.000	0.000
Oseltamivir Days Supply $\geq$ 7 Days 0 to 7	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Day 0	0	0.0%	49,963	98.4%	NaN	NaN
Oseltamivir Minimum Average Filled Dose $\geq$ 150mg Days -30 to 30	490	1.0%	49,936	98.4%	-97.404	-8.609
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,568	5.1%	2,588	5.1%	-0.039	-0.002
<i>Influenza Vaccination in Prior 400 Days</i>	17,485	34.4%	17,021	33.5%	0.914	0.019
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	7,927	15.6%	7,882	15.5%	0.089	0.002
<i>Evidence of COVID Three Months Prior</i>	392	0.8%	345	0.7%	0.093	0.011
<i>Evidence of COVID Two Months Prior</i>	279	0.5%	262	0.5%	0.033	0.005
<i>Evidence of COVID One Month Prior</i>	1,238	2.4%	1,131	2.2%	0.211	0.014
Hospitalization Days -400 to -11	2,788	5.5%	3,009	5.9%	-0.435	-0.019
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	38,486	75.8%	36,757	72.4%	3.406	0.078
<i>COVID Severe Syndrome</i>	139	0.3%	143	0.3%	-0.008	-0.001
Evidence of Influenza Three Days Prior	36,497	71.9%	34,082	67.1%	4.757	0.103
Influenza Diagnosis Days -3 to 0	36,483	71.9%	34,059	67.1%	4.775	0.104

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq 7$  Days 0 to 7**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Positive Flu Lab Days -3 to 0	224	0.4%	236	0.5%	-0.024	-0.004
Influenza Testing in Prior Six Months	28,285	55.7%	23,806	46.9%	8.823	0.177
Evidence of COVID Three Days Prior	1,018	2.0%	937	1.8%	0.160	0.012
COVID Diagnosis Days -3 to 0	950	1.9%	846	1.7%	0.205	0.016
IP Legacy COVID Diagnosis Days -3 to 0	0	0.0%	0	0.0%	NaN	NaN
Positive COVID Lab Days -3 to 0	98	0.2%	121	0.2%	-0.045	-0.010
<b>Health Service Utilization Intensity Metrics</b>						
Mean number of ambulatory encounters	13.8	16.3	14.2	17.0	-0.413	-0.025
Mean number of inpatient hospital encounters	0.3	1.1	0.4	1.1	-0.041	-0.038
Mean number of non-acute institutional encounters	0.1	0.3	0.1	0.3	-0.006	-0.017
Mean number of other ambulatory encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of filled prescriptions	22.5	25.2	22.7	25.9	-0.200	-0.008
Mean number of generics dispensed	7.3	5.9	7.3	5.9	0.024	0.004

**Table 1z. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq$  0 on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, No Oseltamivir Days Supply  $\geq$  7 Days 0 to 7**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	48,299	100.0%	40,872	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	47.8	13.5	47.3	13.8	0.503	0.037
Age						
19-44 years	23,019	47.7%	20,168	49.3%	-1.685	-0.034
45-64 years	15,189	31.4%	12,356	30.2%	1.217	0.026
≥ 65 years	10,091	20.9%	8,348	20.4%	0.468	0.012
Sex						
Female	26,678	55.2%	22,374	54.7%	0.493	0.010
Male	21,621	44.8%	18,498	45.3%	-0.493	-0.010
Race <sup>4</sup>						
American Indian or Alaska Native	69	0.1%	70	0.2%	-0.028	-0.007
Asian	262	0.5%	248	0.6%	-0.064	-0.009
Black or African American	946	2.0%	862	2.1%	-0.150	-0.011
Multi-racial	153	0.3%	121	0.3%	0.021	0.004
Native Hawaiian or Other Pacific Islander	30	0.1%	24	0.1%	0.003	0.001
Unknown	35,685	73.9%	30,358	74.3%	-0.392	-0.009
White	11,154	23.1%	9,189	22.5%	0.611	0.015
Hispanic origin						
Yes	569	1.2%	684	1.7%	-0.495	-0.042
No	11,283	23.4%	9,464	23.2%	0.206	0.005
Unknown	36,447	75.5%	30,724	75.2%	0.290	0.007
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	14,790	30.6%	12,220	29.9%	0.724	0.016

**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	12,894	26.7%	10,801	26.4%	0.270	0.006
Q3	12,381	25.6%	10,469	25.6%	0.020	0.000
Q4 (Most deprived)	8,159	16.9%	7,309	17.9%	-0.990	-0.026
Unknown	71	0.1%	72	0.2%	-0.029	-0.007
<b>Year</b>						
2018	372	0.8%	761	1.9%	-1.092	-0.096
2019	11,806	24.4%	9,551	23.4%	1.075	0.025
2020	21,502	44.5%	16,359	40.0%	4.494	0.091
2021	3,149	6.5%	2,656	6.5%	0.021	0.001
2022	11,199	23.2%	11,139	27.3%	-4.067	-0.094
2023	271	0.6%	406	1.0%	-0.432	-0.049
<b>Season<sup>6</sup></b>						
Flu Season 2018	6,599	13.7%	5,214	12.8%	0.906	0.027
Flu Season 2019	26,281	54.4%	20,815	50.9%	3.486	0.070
Flu Season 2020	1,920	4.0%	1,623	4.0%	0.004	0.000
Flu Season 2021	5,644	11.7%	5,158	12.6%	-0.934	-0.029
Flu Season 2022	7,855	16.3%	8,062	19.7%	-3.462	-0.090
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.6	0.8	1.6	-0.026	-0.016
<i>Acute Myocardial Infarction</i>	297	0.6%	288	0.7%	-0.090	-0.011
<i>Alzheimers Disease</i>	129	0.3%	120	0.3%	-0.027	-0.005
<i>Anemia</i>	4,763	9.9%	4,055	9.9%	-0.060	-0.002
<i>Asthma</i>	4,270	8.8%	3,994	9.8%	-0.931	-0.032
<i>Atrial Fibrillation or Flutter</i>	1,849	3.8%	1,504	3.7%	0.148	0.008

**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,427	5.0%	2,006	4.9%	0.117	0.005
<i>Breast Cancer</i>	950	2.0%	758	1.9%	0.112	0.008
<i>Colorectal Cancer</i>	257	0.5%	214	0.5%	0.009	0.001
<i>Endometrial Cancer</i>	82	0.2%	86	0.2%	-0.041	-0.009
<i>Lung Cancer</i>	149	0.3%	121	0.3%	0.012	0.002
<i>Prostate Cancer</i>	616	1.3%	507	1.2%	0.035	0.003
<i>Urologic Cancer</i>	151	0.3%	107	0.3%	0.051	0.010
<i>Cataract</i>	4,773	9.9%	3,857	9.4%	0.445	0.015
<i>Chronic Kidney Disease</i>	2,541	5.3%	2,184	5.3%	-0.083	-0.004
<i>Chronic Obstructive Pulmonary Disorder</i>	3,929	8.1%	3,502	8.6%	-0.433	-0.016
<i>Depression/Bipolar/Other Mood Disorders</i>	7,850	16.3%	6,733	16.5%	-0.220	-0.006
<i>Diabetes</i>	6,303	13.0%	5,442	13.3%	-0.265	-0.008
<i>Glaucoma</i>	2,169	4.5%	1,787	4.4%	0.119	0.006
<i>Heart Failure and Nonischemic Heart Disease</i>	1,576	3.3%	1,357	3.3%	-0.057	-0.003
<i>Hepatic Disorders</i>	2,388	4.9%	2,099	5.1%	-0.191	-0.009
<i>Hip/Pelvic Fracture</i>	64	0.1%	60	0.1%	-0.014	-0.004
<i>Hyperlipidemia</i>	16,667	34.5%	14,102	34.5%	0.005	0.000
<i>Hypertension</i>	16,734	34.6%	14,099	34.5%	0.151	0.003
<i>Hypothyroidism</i>	6,367	13.2%	5,152	12.6%	0.577	0.017
<i>Ischemic Heart Disease</i>	4,063	8.4%	3,252	8.0%	0.456	0.017
<i>NonAlzheimers Dementia</i>	377	0.8%	329	0.8%	-0.024	-0.003
<i>Osteoporosis</i>	1,845	3.8%	1,514	3.7%	0.116	0.006
<i>Parkinsonism</i>	112	0.2%	117	0.3%	-0.054	-0.011
<i>Rheumatoid Arthritis/Osteoarthritis</i>	9,618	19.9%	7,975	19.5%	0.401	0.010
<i>Stroke/Transient Ischemic Attack</i>	871	1.8%	712	1.7%	0.061	0.005



**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	396	0.8%	347	0.8%	-0.029	-0.003
Evidence of Any High Risk Marker	16,822	34.8%	14,785	36.2%	-1.345	-0.028
<i>High Risk Component: Blood Disorders</i>	17	0.0%	14	0.0%	0.001	0.001
<i>High Risk Component: Chronic Lung Disease</i>	440	0.9%	345	0.8%	0.067	0.007
<i>High Risk Component: Immunocompromised</i>	5,773	12.0%	4,684	11.5%	0.492	0.015
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	886	1.8%	838	2.1%	-0.216	-0.016
<i>High Risk Component: Obesity</i>	10,503	21.7%	9,237	22.6%	-0.854	-0.021
<i>Use</i>	6,408	13.3%	5,833	14.3%	-1.004	-0.029
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	8,752	18.1%	6,256	15.3%	2.814	0.075
Baloxavir Use Prior to Washout	190	0.4%	29	0.1%	0.322	0.067
Oseltamivir Use Prior to Washout	8,881	18.4%	6,384	15.6%	2.768	0.074
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	736	1.5%	573	1.4%	0.122	0.010
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	160	0.3%	156	0.4%	-0.050	-0.008
<b>Oseltamivir Days Supply ≥ 7 Days 0 to 7</b>	<b>14</b>	<b>0.0%</b>	<b>2,191</b>	<b>5.4%</b>	<b>-5.332</b>	<b>-0.334</b>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	38,728	94.8%	NaN	NaN
<b>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</b>	<b>452</b>	<b>0.9%</b>	<b>38,700</b>	<b>94.7%</b>	<b>-93.750</b>	<b>-5.431</b>

**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,571	5.3%	2,025	5.0%	0.369	0.017
<i>Influenza Vaccination in Prior 400 Days</i>	16,964	35.1%	13,450	32.9%	2.215	0.047
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	6,525	13.5%	6,335	15.5%	-1.990	-0.057
<i>Evidence of COVID Three Months Prior</i>	367	0.8%	313	0.8%	-0.006	-0.001
<i>Evidence of COVID Two Months Prior</i>	258	0.5%	231	0.6%	-0.031	-0.004
<i>Evidence of COVID One Month Prior</i>	1,394	2.9%	1,221	3.0%	-0.101	-0.006
<i>Hospitalization Days -400 to -11</i>	2,975	6.2%	2,558	6.3%	-0.099	-0.004
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	100.0%	40,872	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	171	0.4%	165	0.4%	-0.050	-0.008
<i>Evidence of Influenza Three Days Prior</i>	45,745	94.7%	37,696	92.2%	2.483	0.101
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	94.7%	37,672	92.2%	2.506	0.101
<i>Positive Flu Lab Days -3 to 0</i>	288	0.6%	262	0.6%	-0.045	-0.006
<i>Influenza Testing in Prior Six Months</i>	35,484	73.5%	26,403	64.6%	8.868	0.193
<i>Evidence of COVID Three Days Prior</i>	1,245	2.6%	1,073	2.6%	-0.048	-0.003
<i>COVID Diagnosis Days -3 to 0</i>	1,168	2.4%	974	2.4%	0.035	0.002
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	131	0.3%	-0.087	-0.016
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.8	17.3	14.6	17.0	0.237	0.014
<i>encounters</i>	0.4	1.2	0.4	1.2	-0.057	-0.047
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.4	-0.002	-0.005

**Table 1aa. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	2.8	8.9	3.0	9.3	-0.143	-0.016
<i>Mean number of filled prescriptions</i>	23.9	26.5	22.6	26.0	1.283	0.049
Mean number of generics dispensed	7.7	6.1	7.4	6.0	0.298	0.049

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	37,675	78.0%	37,675	92.2%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	47.0	13.5	47.0	13.7	-0.052	-0.004
Age						
19-44 years	18,789	49.9%	18,824	50.0%	-0.093	-0.002
45-64 years	11,505	30.5%	11,441	30.4%	0.170	0.004
≥ 65 years	7,381	19.6%	7,410	19.7%	-0.077	-0.002
Sex						
Female	20,389	54.1%	20,410	54.2%	-0.056	-0.001
Male	17,286	45.9%	17,265	45.8%	0.056	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	54	0.1%	53	0.1%	0.003	0.001
Asian	195	0.5%	200	0.5%	-0.013	-0.002
Black or African American	676	1.8%	675	1.8%	0.003	0.000
Multi-racial	105	0.3%	104	0.3%	0.003	0.001
Native Hawaiian or Other Pacific Islander	20	0.1%	21	0.1%	-0.003	-0.001
Unknown	28,571	75.8%	28,610	75.9%	-0.104	-0.002
White	8,054	21.4%	8,012	21.3%	0.111	0.003
Hispanic origin						
Yes	378	1.0%	550	1.5%	-0.457	-0.041
No	8,165	21.7%	8,130	21.6%	0.093	0.002
Unknown	29,132	77.3%	28,995	77.0%	0.364	0.009

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>ZCTA Social Deprivation Index Score, National Quartile<sup>5</sup></i>						
Q1 (Least deprived)	11,541	30.6%	11,484	30.5%	0.151	0.003
Q2	10,019	26.6%	10,026	26.6%	-0.019	-0.000
Q3	9,606	25.5%	9,602	25.5%	0.011	0.000
Q4 (Most deprived)	6,444	17.1%	6,501	17.3%	-0.151	-0.004
Unknown	61	0.2%	61	0.2%	0.000	0.000
<i>Year</i>						
2018	265	0.7%	701	1.9%	-1.157	-0.103
2019	8,791	23.3%	8,977	23.8%	-0.494	-0.012
2020	16,147	42.9%	15,512	41.2%	1.685	0.034
2021	2,575	6.8%	2,453	6.5%	0.324	0.013
2022	9,655	25.6%	9,678	25.7%	-0.061	-0.001
2023	242	0.6%	354	0.9%	-0.297	-0.034
<i>Season<sup>6</sup></i>						
Flu Season 2018	4,851	12.9%	4,836	12.8%	0.040	0.001
Flu Season 2019	19,737	52.4%	19,757	52.4%	-0.053	-0.001
Flu Season 2020	1,503	4.0%	1,511	4.0%	-0.021	-0.001
Flu Season 2021	4,691	12.5%	4,688	12.4%	0.008	0.000
Flu Season 2022	6,893	18.3%	6,883	18.3%	0.027	0.001
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>						
	0.7	1.5	0.7	1.6	-0.040	-0.026

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Acute Myocardial Infarction</i>	188	0.5%	234	0.6%	-0.122	-0.016
<i>Alzheimers Disease</i>	93	0.2%	101	0.3%	-0.021	-0.004
<i>Anemia</i>	3,360	8.9%	3,542	9.4%	-0.483	-0.017
<i>Asthma</i>	3,198	8.5%	3,469	9.2%	-0.719	-0.025
<i>Atrial Fibrillation or Flutter</i>	1,275	3.4%	1,313	3.5%	-0.101	-0.006
<i>Benign Prostatic Hyperplasia</i>	1,733	4.6%	1,789	4.7%	-0.149	-0.007
<i>Breast Cancer</i>	676	1.8%	676	1.8%	0.000	0.000
<i>Colorectal Cancer</i>	181	0.5%	192	0.5%	-0.029	-0.004
<i>Endometrial Cancer</i>	62	0.2%	75	0.2%	-0.035	-0.008
<i>Lung Cancer</i>	100	0.3%	101	0.3%	-0.003	-0.001
<i>Prostate Cancer</i>	442	1.2%	454	1.2%	-0.032	-0.003
<i>Urologic Cancer</i>	113	0.3%	96	0.3%	0.045	0.009
<i>Cataract</i>	3,423	9.1%	3,439	9.1%	-0.042	-0.001
<i>Chronic Kidney Disease</i>	1,804	4.8%	1,893	5.0%	-0.236	-0.011
<i>Chronic Obstructive Pulmonary Disorder</i>	2,821	7.5%	3,058	8.1%	-0.629	-0.023
<i>Depression/Bipolar/Other Mood Disorders</i>	5,707	15.1%	5,946	15.8%	-0.634	-0.018
<i>Diabetes</i>	4,611	12.2%	4,771	12.7%	-0.425	-0.013
<i>Glaucoma</i>	1,543	4.1%	1,585	4.2%	-0.111	-0.006
<i>Heart Failure and Nonischemic Heart Disease</i>	1,106	2.9%	1,145	3.0%	-0.104	-0.006
<i>Hepatic Disorders</i>	1,672	4.4%	1,823	4.8%	-0.401	-0.019
<i>Hip/Pelvic Fracture</i>	48	0.1%	49	0.1%	-0.003	-0.001
<i>Hyperlipidemia</i>	12,213	32.4%	12,704	33.7%	-1.303	-0.028
<i>Hypertension</i>	12,293	32.6%	12,622	33.5%	-0.873	-0.019

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Hypothyroidism</i>	4,506	12.0%	4,661	12.4%	-0.411	-0.013
<i>Ischemic Heart Disease</i>	2,862	7.6%	2,848	7.6%	0.037	0.001
<i>NonAlzheimers Dementia</i>	258	0.7%	282	0.7%	-0.064	-0.008
<i>Osteoporosis</i>	1,283	3.4%	1,341	3.6%	-0.154	-0.008
<i>Parkinsonism</i>	72	0.2%	101	0.3%	-0.077	-0.016
<i>Rheumatoid Arthritis/Osteoarthritis</i>	6,784	18.0%	7,060	18.7%	-0.733	-0.019
<i>Stroke/Transient Ischemic Attack</i>	591	1.6%	614	1.6%	-0.061	-0.005
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	274	0.7%	274	0.7%	0.000	0.000
<i>Evidence of Any High Risk Marker</i>	12,453	33.1%	13,200	35.0%	-1.983	-0.042
<i>High Risk Component: Blood Disorders</i>	14	0.0%	12	0.0%	0.005	0.003
<i>High Risk Component: Chronic Lung Disease</i>	309	0.8%	316	0.8%	-0.019	-0.002
<i>High Risk Component: Immunocompromised</i>	4,143	11.0%	4,114	10.9%	0.077	0.002
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	627	1.7%	734	1.9%	-0.284	-0.021
<i>High Risk Component: Obesity</i>	7,773	20.6%	8,291	22.0%	-1.375	-0.034
<i>Use</i>	4,744	12.6%	5,131	13.6%	-1.027	-0.030
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	6,703	17.8%	5,810	15.4%	2.370	0.064
<i>Baloxavir Use Prior to Washout</i>	159	0.4%	28	0.1%	0.348	0.070
<i>Oseltamivir Use Prior to Washout</i>	6,808	18.1%	5,927	15.7%	2.338	0.062

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Neuraminidase Inhibitor Antiviral Use During Washout	534	1.4%	523	1.4%	0.029	0.002
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	113	0.3%	129	0.3%	-0.042	-0.008
Oseltamivir Days Supply ≥ 7 Days 0 to 7	12	0.0%	2,032	5.4%	-5.362	-0.335
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	35,746	94.9%	NaN	NaN
Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30	362	1.0%	35,720	94.8%	-93.850	-5.477
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	1,788	4.7%	1,792	4.8%	-0.011	-0.000
<i>Influenza Vaccination in Prior 400 Days</i>	12,518	33.2%	12,242	32.5%	0.733	0.016
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	5,487	14.6%	5,565	14.8%	-0.207	-0.006
<i>Evidence of COVID Three Months Prior</i>	302	0.8%	259	0.7%	0.114	0.013
<i>Evidence of COVID Two Months Prior</i>	216	0.6%	202	0.5%	0.037	0.005
<i>Evidence of COVID One Month Prior</i>	1,137	3.0%	1,089	2.9%	0.127	0.008
Hospitalization Days -400 to -11	2,049	5.4%	2,092	5.6%	-0.114	-0.005
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	37,675	100.0%	37,675	100.0%	0.000	NaN
<i>COVID Severe Syndrome</i>	138	0.4%	139	0.4%	-0.003	-0.000
Evidence of Influenza Three Days Prior	35,709	94.8%	34,773	92.3%	2.484	0.101
Influenza Diagnosis Days -3 to 0	35,696	94.7%	34,756	92.3%	2.495	0.101



**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Positive Flu Lab Days -3 to 0	209	0.6%	233	0.6%	-0.064	-0.008
Influenza Testing in Prior Six Months	27,541	73.1%	24,539	65.1%	7.968	0.173
Evidence of COVID Three Days Prior	1,011	2.7%	962	2.6%	0.130	0.008
COVID Diagnosis Days -3 to 0	948	2.5%	866	2.3%	0.218	0.014
IP Legacy COVID Diagnosis Days -3 to 0	0	0.0%	0	0.0%	NaN	NaN
Positive COVID Lab Days -3 to 0	92	0.2%	123	0.3%	-0.082	-0.015
<b>Health Service Utilization Intensity Metrics</b>						
Mean number of ambulatory encounters	13.7	16.3	14.0	16.5	-0.328	-0.020
Mean number of inpatient hospital encounters	0.4	1.1	0.4	1.1	-0.036	-0.033
Mean number of non-acute institutional encounters	0.1	0.3	0.1	0.3	-0.001	-0.004
Mean number of other ambulatory encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of filled prescriptions	21.6	24.4	21.8	25.3	-0.165	-0.007
Mean number of generics dispensed	7.1	5.8	7.1	5.9	0.030	0.005

**Table 1ab. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days - 3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,950	100.0%	153,900	4.5%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	43.2	16.1	0.001	0.000
Age						
12-18 years	13,156	17.1%	25,731	16.7%	0.378	0.010
19-44 years	29,046	37.7%	59,615	38.7%	-0.990	-0.020
45-64 years	20,193	26.2%	39,316	25.5%	0.695	0.016
≥ 65 years	14,555	18.9%	29,238	19.0%	-0.083	-0.002
Sex						
Female	41,544	54.0%	83,267	54.1%	-0.116	-0.002
Male	35,406	46.0%	70,633	45.9%	0.116	0.002
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	189	0.1%	0.016	0.004
Asian	473	0.6%	972	0.6%	-0.017	-0.002
Black or African American	1,339	1.7%	2,635	1.7%	0.028	0.002
Multi-racial	265	0.3%	491	0.3%	0.025	0.004
Native Hawaiian or Other Pacific Islander	44	0.1%	84	0.1%	0.003	0.001
Unknown	58,199	75.6%	116,428	75.7%	-0.019	-0.000
White	16,523	21.5%	33,101	21.5%	-0.036	-0.001
Hispanic origin						
Yes	1,424	1.9%	3,722	2.4%	-0.568	-0.039
No	16,796	21.8%	33,609	21.8%	-0.011	-0.000
Unknown	58,730	76.3%	116,569	75.7%	0.579	0.014

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	51,002	33.1%	-0.130	-0.003
Q2	20,273	26.3%	40,443	26.3%	0.067	0.002
Q3	18,622	24.2%	37,183	24.2%	0.040	0.001
Q4 (Most deprived)	12,524	16.3%	25,030	16.3%	0.012	0.000
Unknown	125	0.2%	240	0.2%	0.006	0.002
Year						
2018	610	0.8%	2,983	1.9%	-1.146	-0.099
2019	18,370	23.9%	37,656	24.5%	-0.595	-0.014
2020	31,865	41.4%	61,325	39.8%	1.563	0.032
2021	5,256	6.8%	9,676	6.3%	0.543	0.022
2022	20,410	26.5%	41,055	26.7%	-0.153	-0.003
2023	439	0.6%	1,205	0.8%	-0.212	-0.026
Season <sup>6</sup>						
Flu Season 2018	10,495	13.6%	21,136	13.7%	-0.095	-0.003
Flu Season 2019	39,126	50.8%	78,443	51.0%	-0.124	-0.002
Flu Season 2020	2,886	3.8%	5,545	3.6%	0.147	0.008
Flu Season 2021	9,969	13.0%	19,832	12.9%	0.069	0.002
Flu Season 2022	14,474	18.8%	28,944	18.8%	0.003	0.000
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.7	1.5	0.007	0.004
<i>Acute Myocardial Infarction</i>	416	0.5%	823	0.5%	0.006	0.001
<i>Alzheimers Disease</i>	273	0.4%	539	0.4%	0.005	0.001
<i>Anemia</i>	7,092	9.2%	14,170	9.2%	0.009	0.000
<i>Asthma</i>	6,832	8.9%	13,591	8.8%	0.047	0.002

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	5,245	3.4%	0.044	0.002
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	7,094	4.6%	-0.016	-0.001
<i>Breast Cancer</i>	1,350	1.8%	2,682	1.7%	0.012	0.001
<i>Colorectal Cancer</i>	341	0.4%	667	0.4%	0.010	0.001
<i>Endometrial Cancer</i>	108	0.1%	244	0.2%	-0.018	-0.005
<i>Lung Cancer</i>	215	0.3%	413	0.3%	0.011	0.002
<i>Prostate Cancer</i>	888	1.2%	1,695	1.1%	0.053	0.005
<i>Urologic Cancer</i>	214	0.3%	431	0.3%	-0.002	-0.000
<i>Cataract</i>	6,814	8.9%	13,670	8.9%	-0.027	-0.001
<i>Chronic Kidney Disease</i>	3,510	4.6%	6,899	4.5%	0.079	0.004
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	10,425	6.8%	0.041	0.002
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	22,811	14.8%	0.042	0.001
<i>Diabetes</i>	8,653	11.2%	17,273	11.2%	0.021	0.001
<i>Glaucoma</i>	3,156	4.1%	6,239	4.1%	0.047	0.002
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	4,413	2.9%	0.080	0.005
<i>Hepatic Disorders</i>	3,291	4.3%	6,581	4.3%	0.001	0.000
<i>Hip/Pelvic Fracture</i>	121	0.2%	241	0.2%	0.001	0.000
<i>Hyperlipidemia</i>	22,967	29.8%	45,864	29.8%	0.045	0.001
<i>Hypertension</i>	22,418	29.1%	44,826	29.1%	0.006	0.000
<i>Hypothyroidism</i>	9,127	11.9%	18,157	11.8%	0.063	0.002
<i>Ischemic Heart Disease</i>	5,729	7.4%	11,258	7.3%	0.130	0.005
<i>NonAlzheimers Dementia</i>	773	1.0%	1,472	1.0%	0.048	0.005
<i>Osteoporosis</i>	2,748	3.6%	5,302	3.4%	0.126	0.007
<i>Parkinsonism</i>	207	0.3%	400	0.3%	0.009	0.002
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	26,331	17.1%	-0.018	-0.000

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	2,485	1.6%	0.018	0.001
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	1,086	0.7%	0.032	0.004
Evidence of Any High Risk Marker	22,632	29.4%	45,818	29.8%	-0.360	-0.008
<i>High Risk Component: Blood Disorders</i>	22	0.0%	55	0.0%	-0.007	-0.004
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	1,492	1.0%	0.001	0.000
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	16,507	10.7%	0.107	0.003
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	3,270	2.1%	-0.047	-0.003
<i>High Risk Component: Obesity</i>	13,490	17.5%	27,225	17.7%	-0.159	-0.004
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,352	10.9%	16,679	10.8%	0.016	0.001
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,159	21.0%	31,989	20.8%	0.214	0.005
Baloxavir Use Prior to Washout	426	0.6%	97	0.1%	0.491	0.089
Oseltamivir Use Prior to Washout	16,395	21.3%	32,447	21.1%	0.223	0.005
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	3,571	2.3%	-0.376	-0.026
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	226	0.3%	488	0.3%	-0.023	-0.004
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	48	0.1%	19,407	12.6%	-12.548	-0.533
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	133,596	86.8%	NaN	NaN

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	709	0.9%	133,445	86.7%	-85.788	-3.440
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	7,053	4.6%	0.003	0.000
<i>Influenza Vaccination in Prior 400 Days</i>	27,235	35.4%	54,510	35.4%	-0.026	-0.001
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,691	15.2%	23,296	15.1%	0.056	0.002
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	1,131	0.7%	0.003	0.000
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	812	0.5%	-0.012	-0.002
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	3,111	2.0%	0.057	0.004
Hospitalization Days -400 to -11	4,237	5.5%	8,530	5.5%	-0.036	-0.002
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	59,010	76.7%	118,513	77.0%	-0.320	-0.008
<i>COVID Severe Syndrome</i>	173	0.2%	352	0.2%	-0.004	-0.001
<i>Evidence of Influenza Three Days Prior</i>	56,198	73.0%	109,868	71.4%	1.643	0.037
<i>Influenza Diagnosis Days -3 to 0</i>	56,180	73.0%	109,788	71.3%	1.671	0.037
<i>Positive Flu Lab Days -3 to 0</i>	329	0.4%	793	0.5%	-0.088	-0.013
<a href="#">Influenza Testing in Prior Six Months</a>	43,984	57.2%	76,759	49.9%	7.283	0.146
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	2,656	1.7%	-0.039	-0.003
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	2,419	1.6%	0.011	0.001
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	330	0.2%	-0.064	-0.015
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	14.1	18.2	0.037	0.002
<i>encounters</i>	0.4	1.1	0.4	1.5	-0.010	-0.007

**Table 1ac. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.3	0.000	0.000
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	3.1	10.3	0.037	0.003
<i>Mean number of filled prescriptions</i>	22.1	26.6	22.1	28.3	0.062	0.002
Mean number of generics dispensed	7.1	6.0	6.8	5.8	0.349	0.059

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	76,950	100.0%	153,900	4.5%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	43.2	15.8	43.2	16.0	0.003	0.000
Age						
12-18 years	13,156	17.1%	25,833	16.8%	0.311	0.008
19-44 years	29,046	37.7%	59,599	38.7%	-0.979	-0.020
45-64 years	20,193	26.2%	39,252	25.5%	0.737	0.017
≥ 65 years	14,555	18.9%	29,216	19.0%	-0.069	-0.002
Sex						
Female	41,544	54.0%	83,163	54.0%	-0.049	-0.001
Male	35,406	46.0%	70,737	46.0%	0.049	0.001
Race <sup>4</sup>						
American Indian or Alaska Native	107	0.1%	225	0.1%	-0.007	-0.002
Asian	473	0.6%	942	0.6%	0.003	0.000
Black or African American	1,339	1.7%	2,699	1.8%	-0.014	-0.001
Multi-racial	265	0.3%	552	0.4%	-0.014	-0.002
Native Hawaiian or Other Pacific Islander	44	0.1%	88	0.1%	0.000	0.000
Unknown	58,199	75.6%	116,405	75.6%	-0.005	-0.000
White	16,523	21.5%	32,989	21.4%	0.037	0.001
Hispanic origin						
Yes	1,424	1.9%	3,664	2.4%	-0.530	-0.037
No	16,796	21.8%	33,602	21.8%	-0.006	-0.000
Unknown	58,730	76.3%	116,634	75.8%	0.537	0.013

ZCTA Social Deprivation Index Score,  
National Quartile<sup>5</sup>

**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q1 (Least deprived)	25,401	33.0%	50,879	33.1%	-0.050	-0.001
Q2	20,273	26.3%	40,437	26.3%	0.071	0.002
Q3	18,622	24.2%	37,464	24.3%	-0.143	-0.003
Q4 (Most deprived)	12,524	16.3%	24,868	16.2%	0.117	0.003
Unknown	125	0.2%	248	0.2%	0.001	0.000
<b>Year</b>						
2018	610	0.8%	2,942	1.9%	-1.119	-0.097
2019	18,370	23.9%	38,350	24.9%	-1.046	-0.024
2020	31,865	41.4%	61,176	39.8%	1.660	0.034
2021	5,256	6.8%	9,991	6.5%	0.339	0.014
2022	20,410	26.5%	40,235	26.1%	0.380	0.009
2023	439	0.6%	1,206	0.8%	-0.213	-0.026
<b>Season<sup>6</sup></b>						
Flu Season 2018	10,495	13.6%	21,875	14.2%	-0.575	-0.017
Flu Season 2019	39,126	50.8%	78,177	50.8%	0.049	0.001
Flu Season 2020	2,886	3.8%	5,717	3.7%	0.036	0.002
Flu Season 2021	9,969	13.0%	19,631	12.8%	0.199	0.006
Flu Season 2022	14,474	18.8%	28,500	18.5%	0.291	0.007
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.7	1.5	0.8	1.6	-0.036	-0.023
<i>Acute Myocardial Infarction</i>	416	0.5%	866	0.6%	-0.022	-0.003
<i>Alzheimers Disease</i>	273	0.4%	710	0.5%	-0.107	-0.017
<i>Anemia</i>	7,092	9.2%	14,204	9.2%	-0.013	-0.000
<i>Asthma</i>	6,832	8.9%	14,779	9.6%	-0.724	-0.025

**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Atrial Fibrillation or Flutter</i>	2,656	3.5%	5,235	3.4%	0.050	0.003
<i>Benign Prostatic Hyperplasia</i>	3,535	4.6%	7,026	4.6%	0.029	0.001
<i>Breast Cancer</i>	1,350	1.8%	2,538	1.6%	0.105	0.008
<i>Colorectal Cancer</i>	341	0.4%	711	0.5%	-0.019	-0.003
<i>Endometrial Cancer</i>	108	0.1%	246	0.2%	-0.019	-0.005
<i>Lung Cancer</i>	215	0.3%	498	0.3%	-0.044	-0.008
<i>Prostate Cancer</i>	888	1.2%	1,712	1.1%	0.042	0.004
<i>Urologic Cancer</i>	214	0.3%	424	0.3%	0.003	0.000
<i>Cataract</i>	6,814	8.9%	13,263	8.6%	0.237	0.008
<i>Chronic Kidney Disease</i>	3,510	4.6%	7,398	4.8%	-0.246	-0.012
<i>Chronic Obstructive Pulmonary Disorder</i>	5,244	6.8%	11,291	7.3%	-0.522	-0.020
<i>Depression/Bipolar/Other Mood Disorders</i>	11,438	14.9%	23,423	15.2%	-0.355	-0.010
<i>Diabetes</i>	8,653	11.2%	17,504	11.4%	-0.129	-0.004
<i>Glaucoma</i>	3,156	4.1%	6,264	4.1%	0.031	0.002
<i>Heart Failure and Nonischemic Heart Disease</i>	2,268	2.9%	4,609	3.0%	-0.047	-0.003
<i>Hepatic Disorders</i>	3,291	4.3%	6,835	4.4%	-0.164	-0.008
<i>Hip/Pelvic Fracture</i>	121	0.2%	233	0.2%	0.006	0.001
<i>Hyperlipidemia</i>	22,967	29.8%	46,436	30.2%	-0.326	-0.007
<i>Hypertension</i>	22,418	29.1%	44,828	29.1%	0.005	0.000
<i>Hypothyroidism</i>	9,127	11.9%	17,846	11.6%	0.265	0.008
<i>Ischemic Heart Disease</i>	5,729	7.4%	10,875	7.1%	0.379	0.015
<i>NonAlzheimers Dementia</i>	773	1.0%	1,758	1.1%	-0.138	-0.013
<i>Osteoporosis</i>	2,748	3.6%	5,549	3.6%	-0.034	-0.002
<i>Parkinsonism</i>	207	0.3%	462	0.3%	-0.031	-0.006
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,152	17.1%	26,744	17.4%	-0.286	-0.008

**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Stroke/Transient Ischemic Attack</i>	1,256	1.6%	2,487	1.6%	0.016	0.001
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	568	0.7%	1,281	0.8%	-0.094	-0.011
<i>Evidence of Any High Risk Marker</i>	22,632	29.4%	47,065	30.6%	-1.170	-0.026
<i>High Risk Component: Blood Disorders</i>	22	0.0%	47	0.0%	-0.002	-0.001
<i>High Risk Component: Chronic Lung Disease</i>	747	1.0%	1,326	0.9%	0.109	0.011
<i>High Risk Component: Immunocompromised</i>	8,336	10.8%	16,358	10.6%	0.204	0.007
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,599	2.1%	3,602	2.3%	-0.263	-0.018
<i>High Risk Component: Obesity</i>	13,490	17.5%	27,821	18.1%	-0.546	-0.014
<i>High Risk Component: Tobacco or Nicotine Use</i>	8,352	10.9%	17,981	11.7%	-0.830	-0.026
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	16,159	21.0%	28,605	18.6%	2.413	0.061
<i>Baloxavir Use Prior to Washout</i>	426	0.6%	96	0.1%	0.491	0.089
<i>Oseltamivir Use Prior to Washout</i>	16,395	21.3%	29,163	18.9%	2.357	0.059
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,496	1.9%	3,426	2.2%	-0.282	-0.020
<i>Baloxavir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Oseltamivir Use Days -183 to -1</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Aspirin or salicylate-containing medicines</i>	226	0.3%	514	0.3%	-0.040	-0.007
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	48	0.1%	24,950	16.2%	-16.149	-0.618
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0</i>	0	0.0%	128,200	83.3%	NaN	NaN

**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	709	0.9%	128,052	83.2%	-82.283	-3.016
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,529	4.6%	6,959	4.5%	0.064	0.003
<i>Influenza Vaccination in Prior 400 Days</i>	27,235	35.4%	53,898	35.0%	0.372	0.008
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	11,691	15.2%	23,154	15.0%	0.148	0.004
<i>Evidence of COVID Three Months Prior</i>	568	0.7%	1,065	0.7%	0.046	0.005
<i>Evidence of COVID Two Months Prior</i>	397	0.5%	732	0.5%	0.040	0.006
<i>Evidence of COVID One Month Prior</i>	1,599	2.1%	2,901	1.9%	0.193	0.014
Hospitalization Days -400 to -11	4,237	5.5%	8,934	5.8%	-0.299	-0.013
<b>Respiratory Infection Markers</b>						
<a href="#">Medically-Attended Acute Respiratory Illness</a>	59,010	76.7%	100,909	65.6%	11.118	0.247
<i>COVID Severe Syndrome</i>	173	0.2%	369	0.2%	-0.015	-0.003
<a href="#">Evidence of Influenza Three Days Prior</a>	56,198	73.0%	93,732	60.9%	12.127	0.260
<a href="#">Influenza Diagnosis Days -3 to 0</a>	56,180	73.0%	93,661	60.9%	12.150	0.260
Positive Flu Lab Days -3 to 0	329	0.4%	688	0.4%	-0.019	-0.003
<a href="#">Influenza Testing in Prior Six Months</a>	43,984	57.2%	66,781	43.4%	13.767	0.278
<i>Evidence of COVID Three Days Prior</i>	1,298	1.7%	2,362	1.5%	0.152	0.012
<i>COVID Diagnosis Days -3 to 0</i>	1,218	1.6%	2,189	1.4%	0.160	0.013
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	116	0.2%	256	0.2%	-0.016	-0.004
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	14.2	17.0	14.0	16.9	0.181	0.011
<i>encounters</i>	0.4	1.1	0.4	1.1	-0.027	-0.024

**Table 1ad. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Mean number of inpatient hospital encounters</i>	0.1	0.3	0.1	0.4	-0.005	-0.015
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	3.1	11.4	3.3	12.4	-0.155	-0.013
<i>Mean number of filled prescriptions</i>	22.1	26.6	21.7	26.6	0.460	0.017
Mean number of generics dispensed	7.1	6.0	6.9	5.9	0.222	0.038

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,019	100.0%	128,038	4.7%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.8	13.8	-0.012	-0.001
Age						
19-44 years	29,271	45.7%	59,356	46.4%	-0.636	-0.013
45-64 years	20,193	31.5%	39,399	30.8%	0.771	0.017
≥ 65 years	14,555	22.7%	29,283	22.9%	-0.135	-0.003
Sex						
Female	35,385	55.3%	70,912	55.4%	-0.111	-0.002
Male	28,634	44.7%	57,126	44.6%	0.111	0.002
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	178	0.1%	0.003	0.001
Asian	430	0.7%	851	0.7%	0.007	0.001
Black or African American	1,175	1.8%	2,359	1.8%	-0.007	-0.001
Multi-racial	208	0.3%	403	0.3%	0.010	0.002
Native Hawaiian or Other Pacific Islander	40	0.1%	76	0.1%	0.003	0.001
Unknown	46,510	72.7%	93,010	72.6%	0.008	0.000
White	15,565	24.3%	31,161	24.3%	-0.024	-0.001
Hispanic origin						
Yes	773	1.2%	2,326	1.8%	-0.609	-0.050
No	15,798	24.7%	31,582	24.7%	0.011	0.000
Unknown	47,448	74.1%	94,130	73.5%	0.598	0.014
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	40,382	31.5%	-0.031	-0.001

**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,098	26.7%	34,344	26.8%	-0.116	-0.003
Q3	15,990	25.0%	31,723	24.8%	0.201	0.005
Q4 (Most deprived)	10,661	16.7%	21,399	16.7%	-0.060	-0.002
Unknown	94	0.1%	188	0.1%	0.000	0.000
<b>Year</b>						
2018	527	0.8%	2,521	2.0%	-1.146	-0.098
2019	14,821	23.2%	30,390	23.7%	-0.584	-0.014
2020	27,204	42.5%	52,587	41.1%	1.422	0.029
2021	4,470	7.0%	8,071	6.3%	0.679	0.027
2022	16,598	25.9%	33,374	26.1%	-0.139	-0.003
2023	399	0.6%	1,095	0.9%	-0.232	-0.027
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	16,737	13.1%	-0.105	-0.003
Flu Season 2019	33,096	51.7%	66,499	51.9%	-0.240	-0.005
Flu Season 2020	2,715	4.2%	5,217	4.1%	0.166	0.008
Flu Season 2021	8,006	12.5%	15,759	12.3%	0.198	0.006
Flu Season 2022	11,901	18.6%	23,826	18.6%	-0.019	-0.000
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.8	1.7	0.001	0.000
<i>Acute Myocardial Infarction</i>	415	0.6%	821	0.6%	0.007	0.001
<i>Alzheimers Disease</i>	273	0.4%	539	0.4%	0.005	0.001
<i>Anemia</i>	6,887	10.8%	13,663	10.7%	0.087	0.003
<i>Asthma</i>	5,589	8.7%	11,137	8.7%	0.032	0.001
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	5,316	4.2%	-0.006	-0.000



**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	7,119	5.6%	-0.040	-0.002
<i>Breast Cancer</i>	1,350	2.1%	2,701	2.1%	-0.001	-0.000
<i>Colorectal Cancer</i>	341	0.5%	650	0.5%	0.025	0.003
<i>Endometrial Cancer</i>	108	0.2%	219	0.2%	-0.002	-0.001
<i>Lung Cancer</i>	215	0.3%	429	0.3%	0.001	0.000
<i>Prostate Cancer</i>	888	1.4%	1,668	1.3%	0.084	0.007
<i>Urologic Cancer</i>	212	0.3%	436	0.3%	-0.009	-0.002
<i>Cataract</i>	6,803	10.6%	13,501	10.5%	0.082	0.003
<i>Chronic Kidney Disease</i>	3,486	5.4%	7,011	5.5%	-0.030	-0.001
<i>Chronic Obstructive Pulmonary Disorder</i>	5,078	7.9%	10,060	7.9%	0.075	0.003
<i>Depression/Bipolar/Other Mood Disorders</i>	10,313	16.1%	20,664	16.1%	-0.030	-0.001
<i>Diabetes</i>	8,558	13.4%	17,038	13.3%	0.061	0.002
<i>Glaucoma</i>	3,109	4.9%	6,252	4.9%	-0.027	-0.001
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	4,487	3.5%	0.030	0.002
<i>Hepatic Disorders</i>	3,227	5.0%	6,500	5.1%	-0.036	-0.002
<i>Hip/Pelvic Fracture</i>	99	0.2%	217	0.2%	-0.015	-0.004
<i>Hyperlipidemia</i>	22,785	35.6%	45,477	35.5%	0.073	0.002
<i>Hypertension</i>	22,359	34.9%	44,627	34.9%	0.071	0.001
<i>Hypothyroidism</i>	9,004	14.1%	18,087	14.1%	-0.062	-0.002
<i>Ischemic Heart Disease</i>	5,721	8.9%	11,366	8.9%	0.059	0.002
<i>NonAlzheimers Dementia</i>	772	1.2%	1,488	1.2%	0.044	0.004
<i>Osteoporosis</i>	2,739	4.3%	5,489	4.3%	-0.009	-0.000
<i>Parkinsonism</i>	207	0.3%	403	0.3%	0.009	0.002
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,046	20.4%	26,008	20.3%	0.066	0.002
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	2,435	1.9%	0.048	0.003

**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	1,072	0.8%	0.020	0.002
Evidence of Any High Risk Marker	21,789	34.0%	43,921	34.3%	-0.268	-0.006
<i>High Risk Component: Blood Disorders</i>	22	0.0%	45	0.0%	-0.001	-0.000
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	1,414	1.1%	0.006	0.001
<i>High Risk Component: Immunocompromised</i>	7,957	12.4%	15,809	12.3%	0.082	0.002
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	2,365	1.8%	0.087	0.006
<i>High Risk Component: Obesity</i>	13,201	20.6%	26,450	20.7%	-0.037	-0.001
<i>Use</i>	8,253	12.9%	16,485	12.9%	0.016	0.000
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,560	19.6%	24,858	19.4%	0.205	0.005
Baloxavir Use Prior to Washout	370	0.6%	99	0.1%	0.501	0.088
Oseltamivir Use Prior to Washout	12,754	19.9%	25,212	19.7%	0.231	0.006
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	2,640	2.1%	-0.398	-0.029
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.3%	541	0.4%	-0.073	-0.012
<a href="#">Oseltamivir Days Supply ≥ 7 Days 0 to 7</a>	<a href="#">43</a>	<a href="#">0.1%</a>	<a href="#">16,351</a>	<a href="#">12.8%</a>	<a href="#">-12.703</a>	<a href="#">-0.537</a>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	111,797	87.3%	NaN	NaN
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	<a href="#">616</a>	<a href="#">1.0%</a>	<a href="#">111,666</a>	<a href="#">87.2%</a>	<a href="#">-86.251</a>	<a href="#">-3.506</a>

**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	6,925	5.4%	0.074	0.003
<i>Influenza Vaccination in Prior 400 Days</i>	23,166	36.2%	46,321	36.2%	0.009	0.000
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	19,687	15.4%	0.115	0.003
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	979	0.8%	0.009	0.001
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	681	0.5%	0.009	0.001
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	2,922	2.3%	0.087	0.006
<i>Hospitalization Days -400 to -11</i>	4,030	6.3%	8,014	6.3%	0.036	0.001
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,299	75.4%	96,933	75.7%	-0.262	-0.006
<i>COVID Severe Syndrome</i>	171	0.3%	332	0.3%	0.008	0.002
<i>Evidence of Influenza Three Days Prior</i>	45,745	71.5%	89,280	69.7%	1.726	0.038
<i>Influenza Diagnosis Days -3 to 0</i>	45,728	71.4%	89,224	69.7%	1.743	0.038
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	733	0.6%	-0.123	-0.017
<i>Influenza Testing in Prior Six Months</i>	35,496	55.4%	61,657	48.2%	7.291	0.146
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	2,491	1.9%	-0.001	-0.000
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	2,281	1.8%	0.043	0.003
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	321	0.3%	-0.074	-0.016
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	15.1	18.7	-0.057	-0.003
<i>encounters</i>	0.4	1.2	0.4	1.6	-0.005	-0.004
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.4	0.001	0.003

**Table 1ae. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
Patient Characteristics <sup>1,2</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.3	10.4	0.029	0.003
<i>Mean number of filled prescriptions</i>	24.9	28.1	24.9	30.1	0.037	0.001
Mean number of generics dispensed	7.9	6.2	7.5	6.0	0.357	0.058

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	64,014	100.0%	128,028	4.7%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	48.8	13.5	48.8	13.8	-0.011	-0.001
Age						
19-44 years	29,267	45.7%	59,531	46.5%	-0.779	-0.016
45-64 years	20,192	31.5%	39,312	30.7%	0.837	0.018
≥ 65 years	14,555	22.7%	29,185	22.8%	-0.059	-0.001
Sex						
Female	35,383	55.3%	70,522	55.1%	0.191	0.004
Male	28,631	44.7%	57,506	44.9%	-0.191	-0.004
Race <sup>4</sup>						
American Indian or Alaska Native	91	0.1%	204	0.2%	-0.017	-0.004
Asian	430	0.7%	840	0.7%	0.016	0.002
Black or African American	1,175	1.8%	2,350	1.8%	0.000	0.000
Multi-racial	208	0.3%	376	0.3%	0.031	0.006
Native Hawaiian or Other Pacific Islander	40	0.1%	88	0.1%	-0.006	-0.002
Unknown	46,505	72.6%	93,049	72.7%	-0.030	-0.001
White	15,565	24.3%	31,121	24.3%	0.007	0.000
Hispanic origin						
Yes	773	1.2%	2,102	1.6%	-0.434	-0.037
No	15,798	24.7%	31,620	24.7%	-0.019	-0.000
Unknown	47,443	74.1%	94,306	73.7%	0.453	0.010
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	20,171	31.5%	40,655	31.8%	-0.244	-0.005

**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	17,096	26.7%	33,929	26.5%	0.205	0.005
Q3	15,987	25.0%	31,905	24.9%	0.054	0.001
Q4 (Most deprived)	10,661	16.7%	21,332	16.7%	-0.008	-0.000
Unknown	94	0.1%	205	0.2%	-0.013	-0.003
<b>Year</b>						
2018	527	0.8%	2,572	2.0%	-1.186	-0.100
2019	14,821	23.2%	30,075	23.5%	-0.338	-0.008
2020	27,202	42.5%	52,591	41.1%	1.416	0.029
2021	4,467	7.0%	8,229	6.4%	0.551	0.022
2022	16,598	25.9%	33,409	26.1%	-0.166	-0.004
2023	399	0.6%	1,152	0.9%	-0.277	-0.032
<b>Season<sup>6</sup></b>						
Flu Season 2018	8,301	13.0%	16,551	12.9%	0.040	0.001
Flu Season 2019	33,094	51.7%	66,444	51.9%	-0.200	-0.004
Flu Season 2020	2,713	4.2%	5,270	4.1%	0.122	0.006
Flu Season 2021	8,005	12.5%	15,719	12.3%	0.227	0.007
Flu Season 2022	11,901	18.6%	24,044	18.8%	-0.189	-0.005
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	0.8	1.7	0.9	1.7	-0.041	-0.024
<i>Acute Myocardial Infarction</i>	415	0.6%	857	0.7%	-0.021	-0.003
<i>Alzheimers Disease</i>	273	0.4%	707	0.6%	-0.126	-0.018
<i>Anemia</i>	6,886	10.8%	13,811	10.8%	-0.030	-0.001
<i>Asthma</i>	5,589	8.7%	12,139	9.5%	-0.751	-0.026
<i>Atrial Fibrillation or Flutter</i>	2,654	4.1%	5,141	4.0%	0.130	0.007

**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	3,534	5.5%	6,983	5.5%	0.066	0.003
<i>Breast Cancer</i>	1,350	2.1%	2,580	2.0%	0.094	0.007
<i>Colorectal Cancer</i>	341	0.5%	702	0.5%	-0.016	-0.002
<i>Endometrial Cancer</i>	108	0.2%	261	0.2%	-0.035	-0.008
<i>Lung Cancer</i>	215	0.3%	467	0.4%	-0.029	-0.005
<i>Prostate Cancer</i>	888	1.4%	1,689	1.3%	0.068	0.006
<i>Urologic Cancer</i>	212	0.3%	389	0.3%	0.027	0.005
<i>Cataract</i>	6,803	10.6%	13,232	10.3%	0.292	0.010
<i>Chronic Kidney Disease</i>	3,486	5.4%	7,374	5.8%	-0.314	-0.014
<i>Chronic Obstructive Pulmonary Disorder</i>	5,077	7.9%	10,899	8.5%	-0.582	-0.021
<i>Depression/Bipolar/Other Mood Disorders</i>	10,312	16.1%	21,126	16.5%	-0.392	-0.011
<i>Diabetes</i>	8,557	13.4%	17,536	13.7%	-0.330	-0.010
<i>Glaucoma</i>	3,109	4.9%	6,002	4.7%	0.169	0.008
<i>Heart Failure and Nonischemic Heart Disease</i>	2,263	3.5%	4,570	3.6%	-0.034	-0.002
<i>Hepatic Disorders</i>	3,227	5.0%	6,817	5.3%	-0.284	-0.013
<i>Hip/Pelvic Fracture</i>	99	0.2%	213	0.2%	-0.012	-0.003
<i>Hyperlipidemia</i>	22,783	35.6%	45,917	35.9%	-0.274	-0.006
<i>Hypertension</i>	22,358	34.9%	45,071	35.2%	-0.277	-0.006
<i>Hypothyroidism</i>	9,004	14.1%	17,498	13.7%	0.398	0.012
<i>Ischemic Heart Disease</i>	5,720	8.9%	10,654	8.3%	0.614	0.022
<i>NonAlzheimers Dementia</i>	772	1.2%	1,724	1.3%	-0.141	-0.013
<i>Osteoporosis</i>	2,739	4.3%	5,451	4.3%	0.021	0.001
<i>Parkinsonism</i>	207	0.3%	480	0.4%	-0.052	-0.009
<i>Rheumatoid Arthritis/Osteoarthritis</i>	13,045	20.4%	26,430	20.6%	-0.266	-0.007
<i>Stroke/Transient Ischemic Attack</i>	1,248	1.9%	2,506	2.0%	-0.008	-0.001

**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcomes</b>						
<i>Acute Respiratory-Related Hospitalization</i>	549	0.9%	1,199	0.9%	-0.079	-0.008
Evidence of Any High Risk Marker	21,786	34.0%	45,313	35.4%	-1.360	-0.029
<i>High Risk Component: Blood Disorders</i>	22	0.0%	40	0.0%	0.003	0.002
<i>High Risk Component: Chronic Lung Disease</i>	711	1.1%	1,333	1.0%	0.070	0.007
<i>High Risk Component: Immunocompromised</i>	7,955	12.4%	15,447	12.1%	0.362	0.011
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	1,238	1.9%	2,829	2.2%	-0.276	-0.019
<i>High Risk Component: Obesity</i>	13,199	20.6%	27,386	21.4%	-0.772	-0.019
<i>Use</i>	8,251	12.9%	17,755	13.9%	-0.979	-0.029
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	12,559	19.6%	22,249	17.4%	2.241	0.058
Baloxavir Use Prior to Washout	370	0.6%	102	0.1%	0.498	0.087
Oseltamivir Use Prior to Washout	12,753	19.9%	22,677	17.7%	2.210	0.057
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	1,065	1.7%	2,404	1.9%	-0.214	-0.016
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	224	0.3%	467	0.4%	-0.015	-0.002
<a href="#">Oseltamivir Days Supply ≥ 7 Days 0 to 7</a>	<a href="#">43</a>	<a href="#">0.1%</a>	<a href="#">20,962</a>	<a href="#">16.4%</a>	<a href="#">-16.306</a>	<a href="#">-0.622</a>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	107,196	83.7%	NaN	NaN
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	<a href="#">616</a>	<a href="#">1.0%</a>	<a href="#">107,088</a>	<a href="#">83.6%</a>	<a href="#">-82.682</a>	<a href="#">-3.057</a>



**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	3,510	5.5%	6,914	5.4%	0.083	0.004
<i>Influenza Vaccination in Prior 400 Days</i>	23,164	36.2%	45,679	35.7%	0.507	0.011
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	9,917	15.5%	19,900	15.5%	-0.052	-0.001
<i>Evidence of COVID Three Months Prior</i>	495	0.8%	932	0.7%	0.045	0.005
<i>Evidence of COVID Two Months Prior</i>	346	0.5%	680	0.5%	0.009	0.001
<i>Evidence of COVID One Month Prior</i>	1,517	2.4%	2,663	2.1%	0.290	0.020
<i>Hospitalization Days -400 to -11</i>	4,029	6.3%	8,473	6.6%	-0.324	-0.013
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	48,294	75.4%	81,705	63.8%	11.625	0.255
<i>COVID Severe Syndrome</i>	171	0.3%	320	0.2%	0.017	0.003
<i>Evidence of Influenza Three Days Prior</i>	45,740	71.5%	75,408	58.9%	12.554	0.266
<i>Influenza Diagnosis Days -3 to 0</i>	45,723	71.4%	75,358	58.9%	12.566	0.266
<i>Positive Flu Lab Days -3 to 0</i>	288	0.4%	560	0.4%	0.012	0.002
<i>Influenza Testing in Prior Six Months</i>	35,492	55.4%	52,817	41.3%	14.190	0.287
<i>Evidence of COVID Three Days Prior</i>	1,245	1.9%	2,143	1.7%	0.271	0.020
<i>COVID Diagnosis Days -3 to 0</i>	1,168	1.8%	1,963	1.5%	0.291	0.023
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	113	0.2%	250	0.2%	-0.019	-0.004
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	15.0	17.6	14.9	17.6	0.108	0.006
<i>encounters</i>	0.4	1.2	0.4	1.2	-0.030	-0.026
<i>Mean number of inpatient hospital encounters</i>	0.1	0.4	0.1	0.4	-0.005	-0.013

**Table 1af. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	3.3	11.2	3.4	11.3	-0.088	-0.008
<i>Mean number of filled prescriptions</i>	24.9	28.1	24.3	27.8	0.644	0.023
Mean number of generics dispensed	7.9	6.2	7.6	6.1	0.233	0.038

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	14,606	100.0%	875,496	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
<i>Age (years)</i>	74.2	6.5	76.0	7.8	-1.754	-0.244
Age						
19-44 years	9,080	62.2%	474,008	54.1%	8.025	0.163
45-64 years	4,415	30.2%	271,304	31.0%	-0.761	-0.017
≥ 65 years	1,111	7.6%	130,184	14.9%	-7.263	-0.232
Sex						
Female	8,418	57.6%	541,389	61.8%	-4.204	-0.086
Male	6,188	42.4%	334,107	38.2%	4.204	0.086
Race <sup>4</sup>						
American Indian or Alaska Native	54	0.4%	3,031	0.3%	0.024	0.004
Asian	180	1.2%	26,175	3.0%	-1.757	-0.122
Black or African American	533	3.6%	49,496	5.7%	-2.004	-0.095
Multi-racial	*****	*****	340	0.0%	0.023	0.010
Native Hawaiian or Other Pacific Islander	*****	*****	1,685	0.2%	-0.014	-0.003
Unknown	2,037	13.9%	108,034	12.3%	1.607	0.048
White	11,767	80.6%	686,735	78.4%	2.123	0.053
Hispanic origin						
Yes	103	0.7%	17,639	2.0%	-1.310	-0.113
No	12,471	85.4%	746,731	85.3%	0.090	0.003
Unknown	2,032	13.9%	111,126	12.7%	1.219	0.036
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	4,174	28.6%	248,741	28.4%	0.166	0.004

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	3,907	26.7%	233,606	26.7%	0.067	0.002
Q3	3,998	27.4%	224,232	25.6%	1.760	0.040
Q4 (Most deprived)	2,508	17.2%	166,946	19.1%	-1.898	-0.049
Unknown	15	0.1%	827	0.1%	0.008	0.003
<b>Year</b>						
2018	139	1.0%	41,877	4.8%	-3.832	-0.231
2019	3,174	21.7%	343,919	39.3%	-17.552	-0.388
2020	4,529	31.0%	253,023	28.9%	2.107	0.046
2021	1,327	9.1%	31,872	3.6%	5.445	0.224
2022	5,347	36.6%	199,462	22.8%	13.826	0.306
2023	90	0.6%	5,343	0.6%	0.006	0.001
<b>Season<sup>6</sup></b>						
Flu Season 2018	2,081	14.2%	316,791	36.2%	-21.937	-0.522
Flu Season 2019	5,437	37.2%	313,121	35.8%	1.459	0.030
Flu Season 2020	755	5.2%	18,582	2.1%	3.047	0.163
Flu Season 2021	2,409	16.5%	75,789	8.7%	7.837	0.238
Flu Season 2022	3,924	26.9%	151,213	17.3%	9.594	0.233
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	2.0	2.7	2.6	3.0	-0.623	-0.219
<i>Acute Myocardial Infarction</i>	265	1.8%	18,387	2.1%	-0.286	-0.021
<i>Alzheimers Disease</i>	264	1.8%	52,438	6.0%	-4.182	-0.217
<i>Anemia</i>	3,447	23.6%	242,305	27.7%	-4.076	-0.093
<i>Asthma</i>	1,730	11.8%	100,732	11.5%	0.339	0.011
<i>Atrial Fibrillation or Flutter</i>	2,184	15.0%	136,640	15.6%	-0.654	-0.018

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,518	17.2%	133,690	15.3%	1.969	0.053
<i>Breast Cancer</i>	826	5.7%	46,892	5.4%	0.299	0.013
<i>Colorectal Cancer</i>	231	1.6%	14,406	1.6%	-0.064	-0.005
<i>Endometrial Cancer</i>	69	0.5%	5,130	0.6%	-0.114	-0.016
<i>Lung Cancer</i>	175	1.2%	11,766	1.3%	-0.146	-0.013
<i>Prostate Cancer</i>	739	5.1%	38,588	4.4%	0.652	0.031
<i>Urologic Cancer</i>	142	1.0%	7,742	0.9%	0.088	0.009
<i>Cataract</i>	5,253	36.0%	303,607	34.7%	1.286	0.027
<i>Chronic Kidney Disease</i>	2,531	17.3%	177,206	20.2%	-2.912	-0.075
<i>Chronic Obstructive Pulmonary Disorder</i>	2,772	19.0%	190,700	21.8%	-2.803	-0.070
<i>Depression/Bipolar/Other Mood Disorders</i>	<b>2,839</b>	<b>19.4%</b>	<b>218,878</b>	<b>25.0%</b>	<b>-5.563</b>	<b>-0.134</b>
<i>Diabetes</i>	4,430	30.3%	296,553	33.9%	-3.543	-0.076
<i>Glaucoma</i>	2,118	14.5%	130,520	14.9%	-0.407	-0.011
<i>Heart Failure and Nonischemic Heart Disease</i>	1,715	11.7%	130,191	14.9%	-3.129	-0.092
<i>Hepatic Disorders</i>	1,197	8.2%	71,934	8.2%	-0.021	-0.001
<i>Hip/Pelvic Fracture</i>	65	0.4%	5,985	0.7%	-0.239	-0.032
<i>Hyperlipidemia</i>	11,287	77.3%	646,949	73.9%	3.381	0.079
<i>Hypertension</i>	11,094	76.0%	682,893	78.0%	-2.046	-0.049
<i>Hypothyroidism</i>	4,243	29.0%	254,897	29.1%	-0.065	-0.001
<i>Ischemic Heart Disease</i>	4,252	29.1%	240,747	27.5%	1.613	0.036
<i>NonAlzheimers Dementia</i>	<b>713</b>	<b>4.9%</b>	<b>123,308</b>	<b>14.1%</b>	<b>-9.203</b>	<b>-0.318</b>
<i>Osteoporosis</i>	2,177	14.9%	137,812	15.7%	-0.836	-0.023
<i>Parkinsonism</i>	183	1.3%	21,447	2.4%	-1.197	-0.089
<i>Rheumatoid Arthritis/Osteoarthritis</i>	6,960	47.7%	413,502	47.2%	0.421	0.008
<i>Stroke/Transient Ischemic Attack</i>	859	5.9%	69,098	7.9%	-2.011	-0.079

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	319	2.2%	25,719	2.9%	-0.754	-0.048
Evidence of Any High Risk Marker	7,280	49.8%	430,428	49.2%	0.679	0.014
<i>High Risk Component: Blood Disorders</i>	*****	*****	184	0.0%	0.027	0.014
<i>High Risk Component: Chronic Lung Disease</i>	285	2.0%	16,697	1.9%	0.044	0.003
<i>High Risk Component: Immunocompromised</i>	3,077	21.1%	166,064	19.0%	2.099	0.052
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	355	2.4%	41,736	4.8%	-2.337	-0.126
<i>High Risk Component: Obesity</i>	3,820	26.2%	203,261	23.2%	2.937	0.068
<i>Use</i>	3,283	22.5%	204,820	23.4%	-0.918	-0.022
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	2,725	18.7%	192,088	21.9%	-3.284	-0.082
Baloxavir Use Prior to Washout	62	0.4%	197	0.0%	0.402	0.085
Oseltamivir Use Prior to Washout	2,769	19.0%	194,151	22.2%	-3.218	-0.080
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	237	1.6%	45,517	5.2%	-3.576	-0.198
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	35	0.2%	3,419	0.4%	-0.151	-0.027
<i>Oseltamivir Days Supply ≥ 7 Days 0 to 7</i>	*****	*****	240,141	27.4%	-27.381	-0.867
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	610,998	69.8%	NaN	NaN
<i>Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</i>	131	0.9%	609,261	69.6%	-68.693	-2.069

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,671	18.3%	167,413	19.1%	-0.835	-0.021
<i>Influenza Vaccination in Prior 400 Days</i>	9,387	64.3%	545,814	62.3%	1.925	0.040
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	3,713	25.4%	136,633	15.6%	9.815	0.245
<i>Evidence of COVID Three Months Prior</i>	161	1.1%	6,047	0.7%	0.412	0.044
<i>Evidence of COVID Two Months Prior</i>	148	1.0%	5,211	0.6%	0.418	0.047
<i>Evidence of COVID One Month Prior</i>	540	3.7%	15,175	1.7%	1.964	0.121
<i>Hospitalization Days -400 to -11</i>	1,672	11.4%	112,756	12.9%	-1.432	-0.044
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,118	69.3%	441,509	50.4%	18.843	0.392
<i>COVID Severe Syndrome</i>	96	0.7%	2,818	0.3%	0.335	0.048
<i>Evidence of Influenza Three Days Prior</i>	9,391	64.3%	396,294	45.3%	19.030	0.390
<i>Influenza Diagnosis Days -3 to 0</i>	9,387	64.3%	396,005	45.2%	19.036	0.390
<i>Positive Flu Lab Days -3 to 0</i>	99	0.7%	3,585	0.4%	0.268	0.036
<i>Influenza Testing in Prior Six Months</i>	7,385	50.6%	287,775	32.9%	17.691	0.365
<i>Evidence of COVID Three Days Prior</i>	431	3.0%	11,456	1.3%	1.642	0.114
<i>COVID Diagnosis Days -3 to 0</i>	425	2.9%	11,149	1.3%	1.636	0.115
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	18	0.1%	480	0.1%	0.068	0.023
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	25.5	22.7	23.9	24.1	1.604	0.069
<i>encounters</i>	0.5	1.1	0.6	1.4	-0.124	-0.098
<i>Mean number of inpatient hospital encounters</i>	0.1	0.5	0.2	0.6	-0.029	-0.056

**Table 1ag. Aggregated Unadjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
<i>Mean number of other ambulatory encounters</i>	5.8	13.1	13.1	28.0	-7.264	-0.332
<i>Mean number of filled prescriptions</i>	41.0	34.6	50.8	52.0	-9.734	-0.221
Mean number of generics dispensed	11.7	6.6	11.2	6.5	0.442	0.067

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.



**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Unique patients	14,563	99.7%	29,126	3.3%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	74.2	6.5	74.2	6.6	0.010	0.002
Age						
19-44 years	9,041	62.1%	18,143	62.3%	-0.209	-0.004
45-64 years	4,412	30.3%	8,729	30.0%	0.326	0.007
≥ 65 years	1,110	7.6%	2,254	7.7%	-0.117	-0.004
Sex						
Female	8,402	57.7%	16,811	57.7%	-0.024	-0.000
Male	6,161	42.3%	12,315	42.3%	0.024	0.000
Race <sup>4</sup>						
American Indian or Alaska Native	54	0.4%	100	0.3%	0.027	0.005
Asian	178	1.2%	335	1.2%	0.072	0.007
Black or African American	533	3.7%	1,044	3.6%	0.076	0.004
Multi-racial	*****	*****	20	0.1%	-0.007	-0.003
Native Hawaiian or Other Pacific Islander	*****	*****	55	0.2%	-0.010	-0.002
Unknown	2,000	13.7%	4,002	13.7%	-0.007	-0.000
White	11,763	80.8%	23,570	80.9%	-0.151	-0.004
Hispanic origin						
Yes	103	0.7%	384	1.3%	-0.611	-0.061
No	12,467	85.6%	24,922	85.6%	0.041	0.001
Unknown	1,993	13.7%	3,820	13.1%	0.570	0.017
ZCTA Social Deprivation Index Score, National Quartile <sup>5</sup>						
Q1 (Least deprived)	4,161	28.6%	8,413	28.9%	-0.312	-0.007

**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Q2	3,897	26.8%	7,795	26.8%	-0.003	-0.000
Q3	3,988	27.4%	7,880	27.1%	0.330	0.007
Q4 (Most deprived)	2,498	17.2%	5,006	17.2%	-0.034	-0.001
Unknown	15	0.1%	30	0.1%	0.000	0.000
<b>Year</b>						
2018	138	0.9%	601	2.1%	-1.116	-0.092
2019	3,169	21.8%	6,289	21.6%	0.168	0.004
2020	4,511	31.0%	8,791	30.2%	0.793	0.017
2021	1,320	9.1%	2,333	8.0%	1.054	0.038
2022	5,336	36.6%	10,832	37.2%	-0.549	-0.011
2023	89	0.6%	280	1.0%	-0.350	-0.040
<b>Season<sup>6</sup></b>						
Flu Season 2018	2,080	14.3%	4,321	14.8%	-0.553	-0.016
Flu Season 2019	5,416	37.2%	10,685	36.7%	0.505	0.010
Flu Season 2020	748	5.1%	1,528	5.2%	-0.110	-0.005
Flu Season 2021	2,405	16.5%	4,828	16.6%	-0.062	-0.002
Flu Season 2022	3,914	26.9%	7,764	26.7%	0.220	0.005
<b>Chronic Conditions</b>						
<i>Charlson/Elixhauser combined comorbidity score<sup>7</sup></i>	2.0	2.7	2.0	2.6	-0.024	-0.009
<i>Acute Myocardial Infarction</i>	260	1.8%	604	2.1%	-0.288	-0.021
<i>Alzheimers Disease</i>	263	1.8%	598	2.1%	-0.247	-0.018
<i>Anemia</i>	3,438	23.6%	6,621	22.7%	0.876	0.021
<i>Asthma</i>	1,723	11.8%	3,640	12.5%	-0.666	-0.020
<i>Atrial Fibrillation or Flutter</i>	2,179	15.0%	4,026	13.8%	1.140	0.032

**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<i>Benign Prostatic Hyperplasia</i>	2,506	17.2%	4,875	16.7%	0.470	0.013
<i>Breast Cancer</i>	825	5.7%	1,533	5.3%	0.402	0.018
<i>Colorectal Cancer</i>	231	1.6%	427	1.5%	0.120	0.010
<i>Endometrial Cancer</i>	69	0.5%	166	0.6%	-0.096	-0.013
<i>Lung Cancer</i>	174	1.2%	345	1.2%	0.010	0.001
<i>Prostate Cancer</i>	737	5.1%	1,429	4.9%	0.155	0.007
<i>Urologic Cancer</i>	142	1.0%	276	0.9%	0.027	0.003
<i>Cataract</i>	5,240	36.0%	10,220	35.1%	0.893	0.019
<i>Chronic Kidney Disease</i>	2,526	17.3%	5,118	17.6%	-0.227	-0.006
<i>Chronic Obstructive Pulmonary Disorder</i>	2,762	19.0%	5,775	19.8%	-0.862	-0.022
<i>Depression/Bipolar/Other Mood Disorders</i>	2,832	19.4%	5,864	20.1%	-0.687	-0.017
<i>Diabetes</i>	4,423	30.4%	8,840	30.4%	0.021	0.000
<i>Glaucoma</i>	2,112	14.5%	4,064	14.0%	0.549	0.016
<i>Heart Failure and Nonischemic Heart Disease</i>	1,711	11.7%	3,326	11.4%	0.330	0.010
<i>Hepatic Disorders</i>	1,196	8.2%	2,404	8.3%	-0.041	-0.001
<i>Hip/Pelvic Fracture</i>	65	0.4%	124	0.4%	0.021	0.003
<i>Hyperlipidemia</i>	11,251	77.3%	22,334	76.7%	0.577	0.014
<i>Hypertension</i>	11,056	75.9%	22,130	76.0%	-0.062	-0.001
<i>Hypothyroidism</i>	4,233	29.1%	8,005	27.5%	1.583	0.035
<i>Ischemic Heart Disease</i>	4,236	29.1%	7,787	26.7%	2.352	0.052
<i>NonAlzheimers Dementia</i>	712	4.9%	1,491	5.1%	-0.230	-0.011
<i>Osteoporosis</i>	2,175	14.9%	4,382	15.0%	-0.110	-0.003
<i>Parkinsonism</i>	183	1.3%	367	1.3%	-0.003	-0.000
<i>Rheumatoid Arthritis/Osteoarthritis</i>	6,937	47.6%	14,112	48.5%	-0.817	-0.016
<i>Stroke/Transient Ischemic Attack</i>	856	5.9%	1,734	6.0%	-0.076	-0.003

**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Risk Factors for Poor Influenza Outcome</b>						
<i>Acute Respiratory-Related Hospitalization</i>	317	2.2%	674	2.3%	-0.137	-0.009
Evidence of Any High Risk Marker	7,253	49.8%	15,002	51.5%	-1.703	-0.034
<i>High Risk Component: Blood Disorders</i>	*****	*****	*****	*****	0.014	0.007
<i>High Risk Component: Chronic Lung Disease</i>	283	1.9%	477	1.6%	0.306	0.023
<i>High Risk Component: Immunocompromised</i>	3,060	21.0%	6,169	21.2%	-0.168	-0.004
<i>High Risk Component: Neurologic and Neurodevelopment Conditions</i>	354	2.4%	788	2.7%	-0.275	-0.017
<i>High Risk Component: Obesity</i>	3,807	26.1%	7,722	26.5%	-0.371	-0.008
<i>Use</i>	3,268	22.4%	7,089	24.3%	-1.899	-0.045
<b>Medical Product Use</b>						
<i>Neuraminidase Inhibitor Antiviral Use Prior to Washout</i>	2,715	18.6%	4,887	16.8%	1.864	0.049
Baloxavir Use Prior to Washout	62	0.4%	20	0.1%	0.357	0.072
Oseltamivir Use Prior to Washout	2,759	18.9%	4,998	17.2%	1.785	0.046
<i>Neuraminidase Inhibitor Antiviral Use During Washout</i>	237	1.6%	557	1.9%	-0.285	-0.022
Baloxavir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Oseltamivir Use Days -183 to -1	0	0.0%	0	0.0%	NaN	NaN
Aspirin or salicylate-containing medicines	33	0.2%	76	0.3%	-0.034	-0.007
<a href="#">Oseltamivir Days Supply ≥ 7 Days 0 to 7</a>	*****	*****	<a href="#">5,368</a>	<a href="#">18.4%</a>	<a href="#">-18.382</a>	<a href="#">-0.669</a>
Oseltamivir Minimum Average Filled Dose ≥ 150mg Day 0	0	0.0%	23,304	80.0%	NaN	NaN
<a href="#">Oseltamivir Minimum Average Filled Dose ≥ 150mg Days -30 to 30</a>	<a href="#">129</a>	<a href="#">0.9%</a>	<a href="#">23,271</a>	<a href="#">79.9%</a>	<a href="#">-79.012</a>	<a href="#">-2.715</a>

**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product		Covariate Balance			
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
<b>Other Characteristics</b>						
<i>Pneumococcal Vaccination in Prior 400 Days</i>	2,663	18.3%	5,158	17.7%	0.577	0.015
<i>Influenza Vaccination in Prior 400 Days</i>	9,360	64.3%	18,464	63.4%	0.879	0.018
<i>SARS-CoV-2 Vaccination in Prior 400 Days</i>	3,706	25.4%	7,368	25.3%	0.151	0.003
<i>Evidence of COVID Three Months Prior</i>	160	1.1%	338	1.2%	-0.062	-0.006
<i>Evidence of COVID Two Months Prior</i>	148	1.0%	284	1.0%	0.041	0.004
<i>Evidence of COVID One Month Prior</i>	537	3.7%	882	3.0%	0.659	0.037
<i>Hospitalization Days -400 to -11</i>	1,658	11.4%	3,393	11.6%	-0.264	-0.008
<b>Respiratory Infection Markers</b>						
<i>Medically-Attended Acute Respiratory Illness</i>	10,087	69.3%	16,847	57.8%	11.423	0.239
<i>COVID Severe Syndrome</i>	96	0.7%	168	0.6%	0.082	0.011
<i>Evidence of Influenza Three Days Prior</i>	9,360	64.3%	15,260	52.4%	11.879	0.243
<i>Influenza Diagnosis Days -3 to 0</i>	9,356	64.2%	15,238	52.3%	11.927	0.244
<i>Positive Flu Lab Days -3 to 0</i>	99	0.7%	220	0.8%	-0.076	-0.009
<i>Influenza Testing in Prior Six Months</i>	7,366	50.6%	11,018	37.8%	12.751	0.259
<i>Evidence of COVID Three Days Prior</i>	428	2.9%	715	2.5%	0.484	0.030
<i>COVID Diagnosis Days -3 to 0</i>	422	2.9%	696	2.4%	0.508	0.032
<i>IP Legacy COVID Diagnosis Days -3 to 0</i>	0	0.0%	0	0.0%	NaN	NaN
<i>Positive COVID Lab Days -3 to 0</i>	18	0.1%	33	0.1%	0.010	0.003
<b>Health Service Utilization Intensity Metrics</b>						
<i>Mean number of ambulatory encounters</i>	25.5	22.7	25.0	21.9	0.497	0.022
<i>encounters</i>	0.5	1.1	0.5	1.1	-0.035	-0.031
<i>Mean number of inpatient hospital encounters</i>	0.1	0.5	0.2	0.5	-0.003	-0.007

**Table 1ah. Aggregated Adjusted Characteristics of Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Patient Characteristics <sup>1,2</sup>	Medical Product				Covariate Balance	
	Baloxavir		Oseltamivir		Absolute Difference	Standardized Difference
	Number/Mean	Percent/ Standard Deviation <sup>3</sup>	Number/Mean	Percent/ Standard Deviation <sup>3</sup>		
Mean number of non-acute institutional encounters	0.0	NaN	0.0	NaN	NaN	NaN
Mean number of other ambulatory encounters	5.8	13.1	6.0	13.3	-0.140	-0.011
<i>Mean number of filled prescriptions</i>	40.9	34.5	40.1	34.1	0.789	0.023
Mean number of generics dispensed	11.6	6.6	11.3	6.5	0.374	0.057

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.

<sup>2</sup>Covariates in italics were included in the propensity score logistic regression model.

<sup>3</sup>Value represents standard deviation where no % follows the value.

<sup>4</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>5</sup>The Social Deprivation Index score is a composite measure of zip code tabulation area (ZCTA)-level deprivation constructed from seven demographic and household characteristics collected in the American Community Survey, where higher values indicate greater levels of deprivation. For this project, each patient's most recent geographic information is used. For more information, see Butler DC et al. Health Services Research. 2013;48(2pt1):539-559. doi:10.1111/j.1475-6773.2012.01449.x.

<sup>6</sup>Flu seasons are defined from October 1 of one year through September 30 of the next.

<sup>7</sup>The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A Combined Comorbidity Score Predicted Mortality in Elderly Patients Better Than Existing Scores. J Clin Epidemiol. 2011;64(7):749-759; Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Med Care. 2017;55(12):1046-1051)

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

\*Data presented by a dash, period, or NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

**Table 2. Signal Identification Outcome Assessment<sup>1</sup>, via Bernoulli Tree-Based Scan Statistic<sup>2</sup> among Baloxavir Initiators Matched to Oseltamivir Initiators, P-Value ≤ 0.05**

Node Name	Node ID	Node Level	Total Node Outcomes among Baloxavir and Oseltamivir Initiators	Node Outcomes among Baloxavir Initiators	Expected Node Outcomes among Baloxavir Initiators	Relative Risk	Test Statistic <sup>2</sup>	P-Value
<b>Inpatient or Emergency Department Setting</b>								
<i>Ages 12 and Older, Conventional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 12 and Older, High-Dimensional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 12 and Older, Conventional Propensity Score, Ratio 1:2</i>								
N/A								
<i>Ages 12 and Older, High-Dimensional Propensity Score, Ratio 1:2</i>								
N/A								
<i>Ages 12 to 18, Conventional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 19 and Older, Conventional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 19 and Older, High-Dimensional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 19 and Older, Conventional Propensity Score, Ratio 1:2</i>								
N/A								
<i>Ages 19 and Older, High-Dimensional Propensity Score, Ratio 1:2</i>								
N/A								
<b>Inpatient, Emergency Department, or Outpatient Setting</b>								
<i>Ages 12 and Older, Conventional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 12 to 18, Conventional Propensity Score, Ratio 1:1</i>								
N/A								
<i>Ages 19 and Older, Conventional Propensity Score, Ratio 1:1</i>								
Acute Bronchitis, Unspecified	J209	4	2362	1290	1181	1.09	10.23	0.01
<i>Ages 65 and Older, High Dimensional Propensity Score, Ratio 1:2</i>								
N/A								

<sup>1</sup>Outcomes were assessed at the 3,4,5, and 6th level with a 400-day washout using the hierarchical ICD-10-CM tree structure.

<sup>2</sup>See Appendix S for details calculating the unconditional Bernoulli log likelihood ratio (LLR) based test statistic.

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Baloxavir		Oseltamivir		Pediatric Baloxavir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting enrollment and demographic requirements</b>						
Enrolled at any point during the query period	279,428,732	N/A	279,428,732	N/A	279,428,732	N/A
Had required coverage type (medical and/or drug coverage)	204,529,093	74,899,639	204,529,093	74,899,639	204,529,093	74,899,639
Enrolled during specified age range	171,406,935	33,122,158	171,406,935	33,122,158	28,600,260	175,928,833
Had requestable medical charts	171,406,935	0	171,406,935	0	28,600,260	0
Met demographic requirements (sex, race, and Hispanic origin)	171,334,800	72,135	171,334,800	72,135	28,594,579	5,681
<b>Members with a valid index event</b>						
Had any cohort-defining claim during the query period	124,979	171,209,821	5,450,253	165,884,547	25,950	28,568,629
Claim recorded during specified age range	124,426	553	5,083,880	366,373	21,314	4,636
Episode defining index claim recorded during the query period	124,426	0	5,083,880	0	21,314	0
<b>Members with required pre-index history</b>						
Had sufficient pre-index continuous enrollment	92,282	32,144	3,859,252	1,224,628	16,359	4,955
Met inclusion and exclusion criteria <sup>1</sup>	81,849	10,433	3,459,031	400,221	14,563	1,796
<i>Evidence of pre-index baloxavir</i>	N/A	608	N/A	5,219	N/A	N/A
<i>Evidence of pre-index oseltamivir</i>	N/A	7,614	N/A	30,816	N/A	850
<i>Evidence of acute inpatient encounter [-10, 0] days of index</i>	N/A	231	N/A	106,498	N/A	*****
<i>Evidence of non-acute institutional encounter [-400, 0] days of index</i>	N/A	1,093	N/A	156,502	N/A	33
<i>Evidence of Pregnancy Indicators</i>						
<i>Test For Alpha-Fetoprotein</i>	N/A	*****	N/A	162	N/A	0
<i>Anatomic Ultrasound</i>	N/A	29	N/A	17,673	N/A	0
<i>Fetal Aneuploidy Test</i>	N/A	26	N/A	12,334	N/A	0
<i>Live-Birth Delivery</i>	N/A	*****	N/A	7,316	N/A	0
<i>Chorionic Villus Sampling</i>	N/A	*****	N/A	156	N/A	0
<i>Estriol Test</i>	N/A	45	N/A	6,211	N/A	*****
<i>Fertility Procedures</i>	N/A	20	N/A	1,388	N/A	0
<i>20-Weeks Gestation</i>	N/A	13	N/A	9,578	N/A	0
<i>21-Weeks Gestation</i>	N/A	*****	N/A	4,884	N/A	0
<i>22-Weeks Gestation</i>	N/A	*****	N/A	4,101	N/A	0
<i>23-Weeks Gestation</i>	N/A	*****	N/A	3,656	N/A	0



**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Baloxavir		Oseltamivir		Pediatric Baloxavir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
24-Weeks Gestation	N/A	*****	N/A	4,712	N/A	0
25-Weeks Gestation	N/A	*****	N/A	3,570	N/A	*****
26-Weeks Gestation	N/A	*****	N/A	3,399	N/A	0
27-Weeks Gestation	N/A	*****	N/A	3,719	N/A	0
28-Weeks Gestation	N/A	*****	N/A	5,195	N/A	0
29-Weeks Gestation	N/A	*****	N/A	3,451	N/A	0
30-Weeks Gestation	N/A	*****	N/A	3,886	N/A	0
31-Weeks Gestation	N/A	*****	N/A	3,378	N/A	0
32-Weeks Gestation	N/A	*****	N/A	4,324	N/A	0
33-Weeks Gestation	N/A	*****	N/A	3,577	N/A	0
34-Weeks Gestation	N/A	*****	N/A	3,736	N/A	0
35-Weeks Gestation	N/A	*****	N/A	3,869	N/A	0
36-Weeks Gestation	N/A	*****	N/A	4,452	N/A	0
37-Weeks Gestation	N/A	*****	N/A	3,791	N/A	0
38-Weeks Gestation	N/A	*****	N/A	3,191	N/A	0
39-Weeks Gestation	N/A	*****	N/A	3,324	N/A	0
40-Weeks Gestation	N/A	0	N/A	1,015	N/A	0
41-Weeks Gestation	N/A	0	N/A	181	N/A	0
42-Weeks Gestation	N/A	0	N/A	*****	N/A	0
Glucose Tolerance Test	N/A	83	N/A	27,442	N/A	*****
> 42-Weeks Gestation	N/A	0	N/A	*****	N/A	0
Inhibin-A Test	N/A	12	N/A	6,178	N/A	*****
Extreme Immaturity Of Newborn	N/A	0	N/A	*****	N/A	0
Nuchal Ultrasound	N/A	19	N/A	15,028	N/A	0
Pregnancy-Associated Plasma Protein Test	N/A	*****	N/A	4,889	N/A	0
Post-Term Delivery	N/A	0	N/A	729	N/A	0
Pre-Term Labor In Second Trimester	N/A	*****	N/A	112	N/A	0
Pre-Term Labor In Third Trimester	N/A	*****	N/A	813	N/A	0
Prolonged Gestation	N/A	0	N/A	*****	N/A	0
Group B Streptococcus Test	N/A	1,604	N/A	98,552	N/A	960
Ultrasound	N/A	47	N/A	27,980	N/A	*****
<b>Members meeting all descriptive cohort requirements</b>						
Number of members	81,849	N/A	3,459,031	N/A	14,563	N/A

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Baloxavir		Oseltamivir		Pediatric Baloxavir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting comparative cohort eligibility requirements</b>						
Excluded due to same-day initiation of both exposure groups	81,849	0	3,459,031	0	14,563	0
Excluded due to prior initiation of other exposure group	76,950	4,899	3,456,633	2,398	13,202	1,361
Excluded due to prior initiation of other exposure group in a prior look	76,950	0	3,456,633	0	13,202	0
Included in comparative analysis						
<i>Conventional propensity score 1:1 matching</i>	76,950	0	76,950	3,379,683	13,199	3
<i>High-dimensional propensity score 1:1 matching</i>	76,948	2	76,948	3,379,685	13,139	63
<i>Conventional propensity score 1:2 matching</i>	76,950	0	153,900	3,302,733	N/A	N/A
<i>High-dimensional propensity score 1:2 matching</i>	76,950	0	153,900	3,302,733	N/A	N/A

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Pediatric Oseltamivir		Adult Baloxavir		Adult Oseltamivir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting enrollment and demographic requirements</b>						
Enrolled at any point during the query period	279,428,732	N/A	279,428,732	N/A	279,428,732	N/A
Had required coverage type (medical and/or drug coverage)	204,529,093	74,899,639	204,529,093	74,899,639	204,529,093	74,899,639
Enrolled during specified age range	28,600,260	175,928,833	151,217,052	53,312,041	151,217,052	53,312,041
Had requestable medical charts	28,600,260	0	151,217,052	0	151,217,052	0
Met demographic requirements (sex, race, and Hispanic origin)	28,594,579	5,681	151,147,262	69,790	151,147,262	69,790
<b>Members with a valid index event</b>						
Had any cohort-defining claim during the query period	1,472,108	27,122,471	108,787	151,038,475	4,244,716	146,902,546
Claim recorded during specified age range	1,015,763	456,345	103,191	5,596	4,072,951	171,765
Episode defining index claim recorded during the query period	1,015,763	0	103,191	0	4,072,951	0
<b>Members with required pre-index history</b>						
Had sufficient pre-index continuous enrollment	777,066	238,697	75,982	27,209	3,086,042	986,909
Met inclusion and exclusion criteria <sup>1</sup>	722,069	54,997	67,830	8,152	2,742,926	343,116
<i>Evidence of pre-index baloxavir</i>	N/A	633	N/A	503	N/A	4,363
<i>Evidence of pre-index oseltamivir</i>	N/A	N/A	N/A	6,247	N/A	27,304
<i>Evidence of acute inpatient encounter [-10, 0] days of index</i>	N/A	2,243	N/A	224	N/A	104,249
<i>Evidence of non-acute institutional encounter [-400, 0] days of index</i>	N/A	5,708	N/A	1,060	N/A	150,794
<i>Evidence of Pregnancy Indicators</i>						
<i>Test For Alpha-Fetoprotein</i>	N/A	*****	N/A	*****	N/A	159
<i>Anatomic Ultrasound</i>	N/A	388	N/A	29	N/A	17,297
<i>Fetal Aneuploidy Test</i>	N/A	179	N/A	26	N/A	12,164
<i>Live-Birth Delivery</i>	N/A	320	N/A	*****	N/A	6,997
<i>Chorionic Villus Sampling</i>	N/A	0	N/A	*****	N/A	156
<i>Estriol Test</i>	N/A	307	N/A	44	N/A	5,903
<i>Fertility Procedures</i>	N/A	0	N/A	20	N/A	1,388
<i>20-Weeks Gestation</i>	N/A	335	N/A	13	N/A	9,257
<i>21-Weeks Gestation</i>	N/A	179	N/A	*****	N/A	4,713
<i>22-Weeks Gestation</i>	N/A	172	N/A	*****	N/A	3,935
<i>23-Weeks Gestation</i>	N/A	155	N/A	*****	N/A	3,503

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Pediatric Oseltamivir		Adult Baloxavir		Adult Oseltamivir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
24-Weeks Gestation	N/A	213	N/A	*****	N/A	4,504
25-Weeks Gestation	N/A	143	N/A	*****	N/A	3,432
26-Weeks Gestation	N/A	131	N/A	*****	N/A	3,272
27-Weeks Gestation	N/A	130	N/A	*****	N/A	3,594
28-Weeks Gestation	N/A	187	N/A	*****	N/A	5,007
29-Weeks Gestation	N/A	128	N/A	*****	N/A	3,325
30-Weeks Gestation	N/A	169	N/A	*****	N/A	3,719
31-Weeks Gestation	N/A	138	N/A	*****	N/A	3,242
32-Weeks Gestation	N/A	166	N/A	*****	N/A	4,160
33-Weeks Gestation	N/A	123	N/A	*****	N/A	3,459
34-Weeks Gestation	N/A	152	N/A	*****	N/A	3,587
35-Weeks Gestation	N/A	129	N/A	*****	N/A	3,745
36-Weeks Gestation	N/A	165	N/A	*****	N/A	4,290
37-Weeks Gestation	N/A	144	N/A	*****	N/A	3,648
38-Weeks Gestation	N/A	135	N/A	*****	N/A	3,054
39-Weeks Gestation	N/A	125	N/A	*****	N/A	3,199
40-Weeks Gestation	N/A	41	N/A	0	N/A	974
41-Weeks Gestation	N/A	*****	N/A	0	N/A	177
42-Weeks Gestation	N/A	0	N/A	0	N/A	*****
Glucose Tolerance Test	N/A	1,236	N/A	74	N/A	26,219
> 42-Weeks Gestation	N/A	0	N/A	0	N/A	*****
Inhibin-A Test	N/A	321	N/A	11	N/A	5,856
Extreme Immaturity Of Newborn	N/A	*****	N/A	0	N/A	*****
Nuchal Ultrasound	N/A	263	N/A	19	N/A	14,773
Pregnancy-Associated Plasma Protein Test	N/A	117	N/A	*****	N/A	4,776
Post-Term Delivery	N/A	24	N/A	0	N/A	704
Pre-Term Labor In Second Trimester	N/A	*****	N/A	*****	N/A	105
Pre-Term Labor In Third Trimester	N/A	41	N/A	*****	N/A	772
Prolonged Gestation	N/A	*****	N/A	0	N/A	*****
Group B Streptococcus Test	N/A	45,198	N/A	645	N/A	53,349
Ultrasound	N/A	1,132	N/A	46	N/A	26,883
<b>Members meeting all descriptive cohort requirements</b>						
Number of members	722,069	N/A	67,830	N/A	2,742,926	N/A

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Pediatric Oseltamivir		Adult Baloxavir		Adult Oseltamivir	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting comparative cohort eligibility requirements</b>						
Excluded due to same-day initiation of both exposure groups	722,069	0	67,830	0	2,742,926	0
Excluded due to prior initiation of other exposure group	721,471	598	64,019	3,811	2,741,030	1,896
Excluded due to prior initiation of other exposure group in a prior look	721,471	0	64,019	0	2,741,030	0
Included in comparative analysis						
<i>Conventional propensity score 1:1 matching</i>	13,199	708,200	64,019	0	64,019	2,677,011
<i>High-dimensional propensity score 1:1 matching</i>	13,139	708,260	64,019	0	64,019	2,677,011
<i>Conventional propensity score 1:2 matching</i>	N/A	N/A	64,019	0	128,038	2,612,992
<i>High-dimensional propensity score 1:2 matching</i>	N/A	N/A	64,014	5	128,028	2,613,002

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Geriatric Baloxavir		Geriatric Oseltamivir	
	Remaining	Excluded	Remaining	Excluded
<b>Members meeting enrollment and demographic requirements</b>				
Enrolled at any point during the query period	279,428,732	N/A	279,428,732	N/A
Had required coverage type (medical and/or drug coverage)	204,529,093	74,899,639	204,529,093	74,899,639
Enrolled during specified age range	46,081,514	158,447,579	46,081,514	158,447,579
Had requestable medical charts	46,081,514	0	46,081,514	0
Met demographic requirements (sex, race, and Hispanic origin)	46,073,945	7,569	46,073,945	7,569
<b>Members with a valid index event</b>				
Had any cohort-defining claim during the query period	22,985	46,050,960	1,326,635	44,747,310
Claim recorded during specified age range	20,754	2,231	1,225,495	101,140
Episode defining index claim recorded during the query period	20,754	0	1,225,495	0
<b>Members with required pre-index history</b>				
Had sufficient pre-index continuous enrollment	17,565	3,189	1,057,616	167,879
Met inclusion and exclusion criteria <sup>1</sup>	15,504	2,061	875,927	181,689
<i>Evidence of pre-index baloxavir</i>	N/A	111	N/A	567
<i>Evidence of pre-index oseltamivir</i>	N/A	1,027	N/A	16,550
<i>Evidence of acute inpatient encounter [-10, 0] days of index</i>	N/A	137	N/A	63,204
<i>Evidence of non-acute institutional encounter [-400, 0] days of index</i>	N/A	903	N/A	118,081
<i>Evidence of Pregnancy Indicators</i>				
<i>Test For Alpha-Fetoprotein</i>	N/A	*****	N/A	*****
<i>Anatomic Ultrasound</i>	N/A	0	N/A	0
<i>Fetal Aneuploidy Test</i>	N/A	0	N/A	*****
<i>Live-Birth Delivery</i>	N/A	0	N/A	*****
<i>Chorionic Villus Sampling</i>	N/A	0	N/A	0
<i>Estriol Test</i>	N/A	11	N/A	177
<i>Fertility Procedures</i>	N/A	0	N/A	0
<i>20-Weeks Gestation</i>	N/A	0	N/A	*****
<i>21-Weeks Gestation</i>	N/A	0	N/A	0
<i>22-Weeks Gestation</i>	N/A	0	N/A	*****
<i>23-Weeks Gestation</i>	N/A	0	N/A	0

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Geriatric Baloxavir		Geriatric Oseltamivir	
	Remaining	Excluded	Remaining	Excluded
<i>24-Weeks Gestation</i>	N/A	0	N/A	0
<i>25-Weeks Gestation</i>	N/A	0	N/A	0
<i>26-Weeks Gestation</i>	N/A	0	N/A	0
<i>27-Weeks Gestation</i>	N/A	0	N/A	*****
<i>28-Weeks Gestation</i>	N/A	0	N/A	0
<i>29-Weeks Gestation</i>	N/A	0	N/A	0
<i>30-Weeks Gestation</i>	N/A	0	N/A	0
<i>31-Weeks Gestation</i>	N/A	0	N/A	0
<i>32-Weeks Gestation</i>	N/A	0	N/A	0
<i>33-Weeks Gestation</i>	N/A	0	N/A	*****
<i>34-Weeks Gestation</i>	N/A	0	N/A	0
<i>35-Weeks Gestation</i>	N/A	0	N/A	0
<i>36-Weeks Gestation</i>	N/A	0	N/A	0
<i>37-Weeks Gestation</i>	N/A	0	N/A	0
<i>38-Weeks Gestation</i>	N/A	0	N/A	0
<i>39-Weeks Gestation</i>	N/A	0	N/A	0
<i>40-Weeks Gestation</i>	N/A	0	N/A	0
<i>41-Weeks Gestation</i>	N/A	0	N/A	0
<i>42-Weeks Gestation</i>	N/A	0	N/A	0
<i>Glucose Tolerance Test</i>	N/A	*****	N/A	413
<i>&gt; 42-Weeks Gestation</i>	N/A	0	N/A	0
<i>Inhibin-A Test</i>	N/A	*****	N/A	80
<i>Extreme Immaturity Of Newborn</i>	N/A	0	N/A	0
<i>Nuchal Ultrasound</i>	N/A	0	N/A	0
<i>Pregnancy-Associated Plasma Protein Test</i>	N/A	0	N/A	0
<i>Post-Term Delivery</i>	N/A	0	N/A	0
<i>Pre-Term Labor In Second Trimester</i>	N/A	0	N/A	0
<i>Pre-Term Labor In Third Trimester</i>	N/A	0	N/A	0
<i>Prolonged Gestation</i>	N/A	0	N/A	0
<i>Group B Streptococcus Test</i>	N/A	103	N/A	8,460
<i>Ultrasound</i>	N/A	0	N/A	*****
<b>Members meeting all descriptive cohort requirements</b>				
Number of members	15,504	N/A	875,927	N/A

**Table 3. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

	Geriatric Baloxavir		Geriatric Oseltamivir	
	Remaining	Excluded	Remaining	Excluded
<b>Members meeting comparative cohort eligibility requirements</b>				
Excluded due to same-day initiation of both exposure groups	15,504	0	875,927	0
Excluded due to prior initiation of other exposure group	14,606	898	875,496	431
Excluded due to prior initiation of other exposure group in a prior look	14,606	0	875,496	0
Included in comparative analysis				
<i>Conventional propensity score 1:1 matching</i>	N/A	N/A	N/A	N/A
<i>High-dimensional propensity score 1:1 matching</i>	N/A	N/A	N/A	N/A
<i>Conventional propensity score 1:2 matching</i>	N/A	N/A	N/A	N/A
<i>High-dimensional propensity score 1:2 matching</i>	14,563	43	29,126	846,370

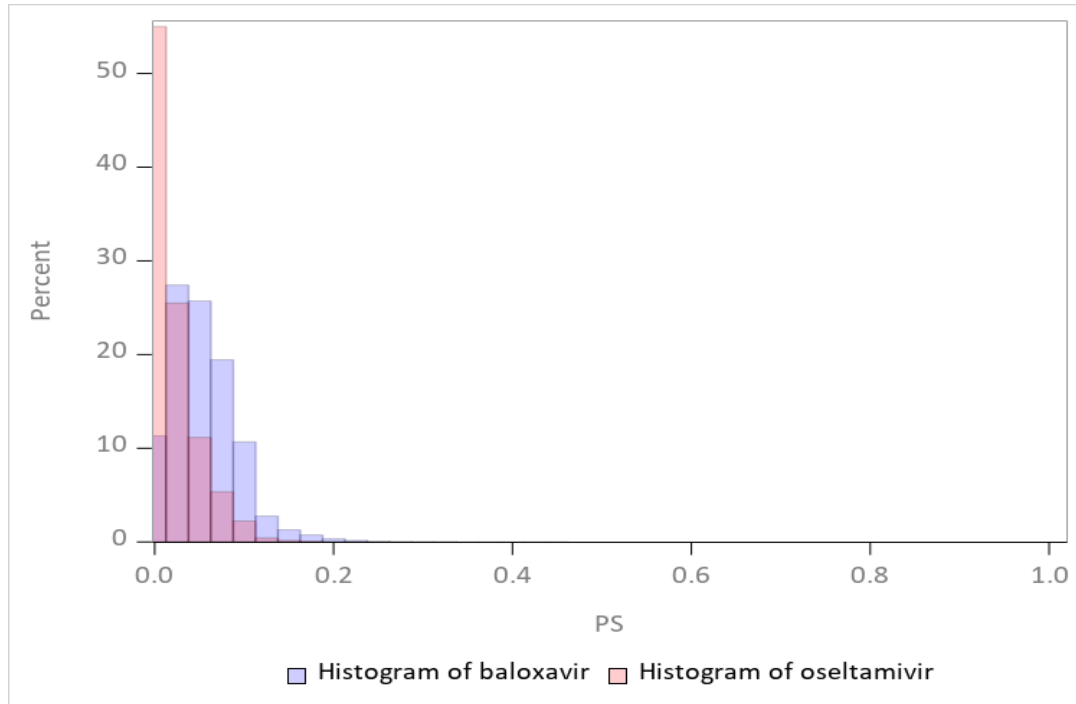
<sup>1</sup>Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

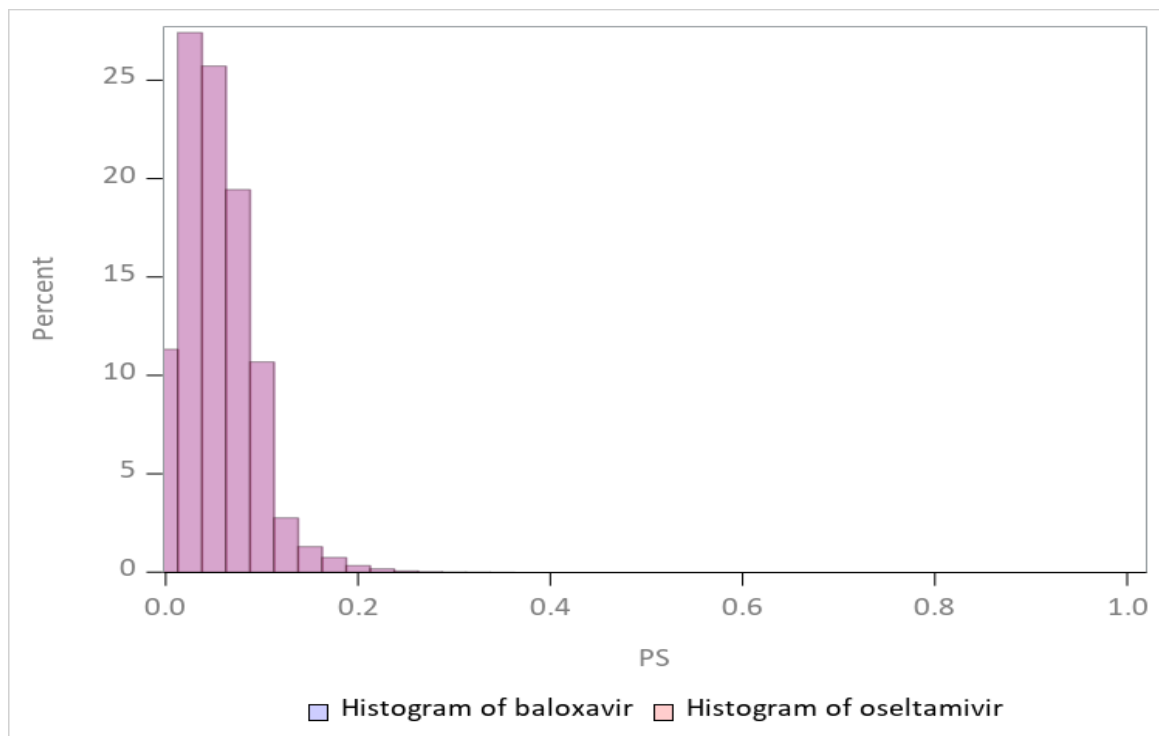


**Figure 1a. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

**Unadjusted Propensity Score Distribution**

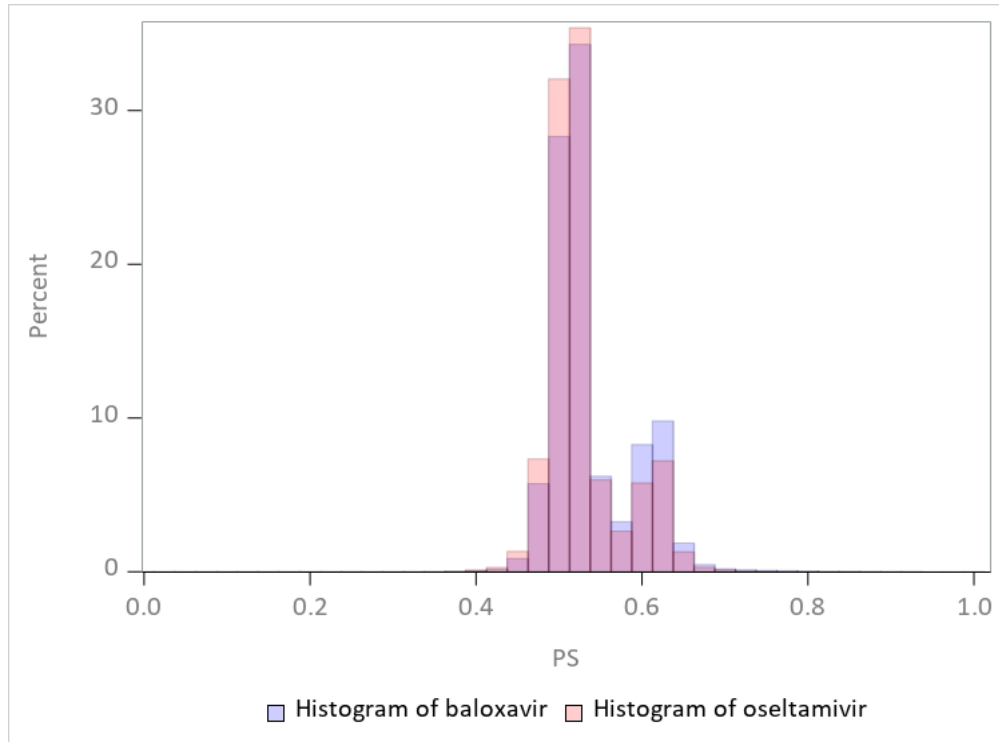


**Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025**

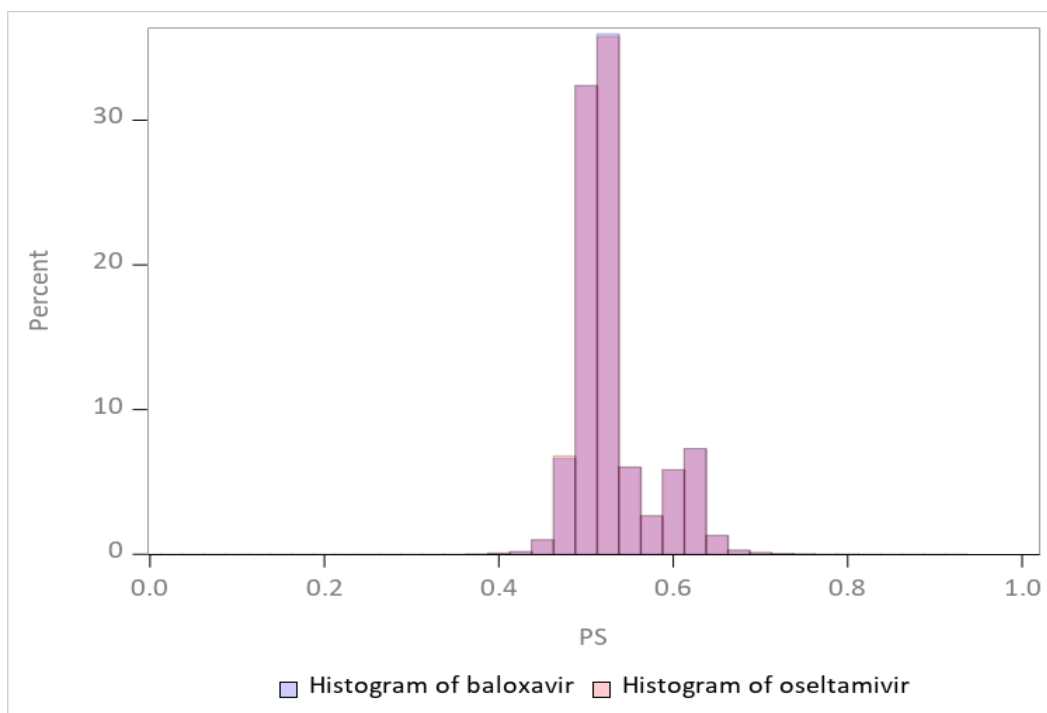


**Figure 1b. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

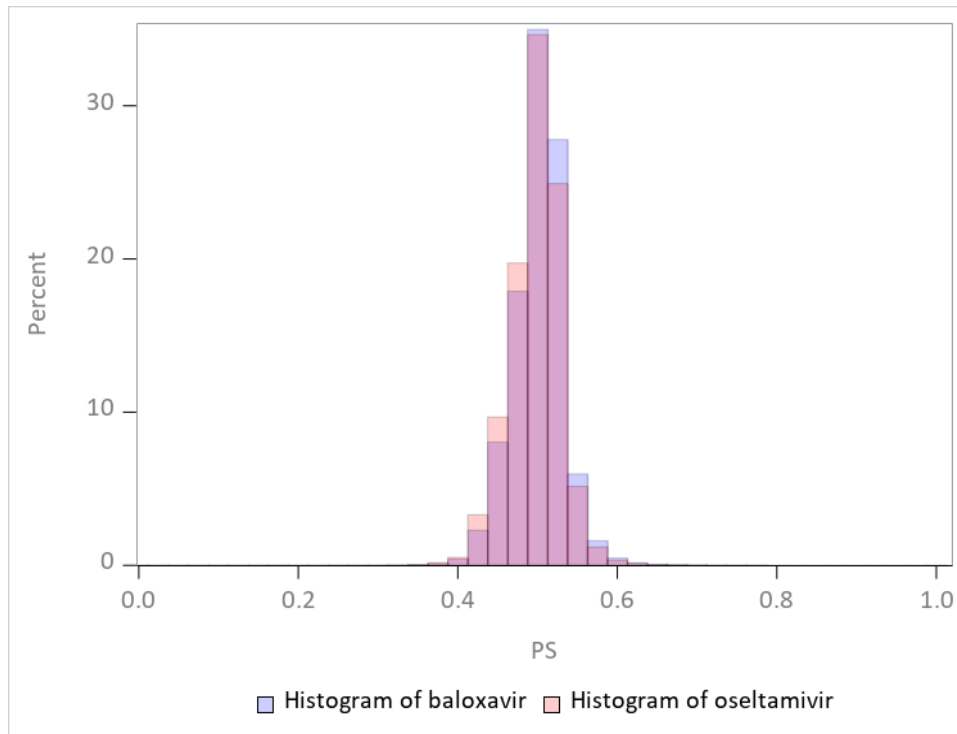


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

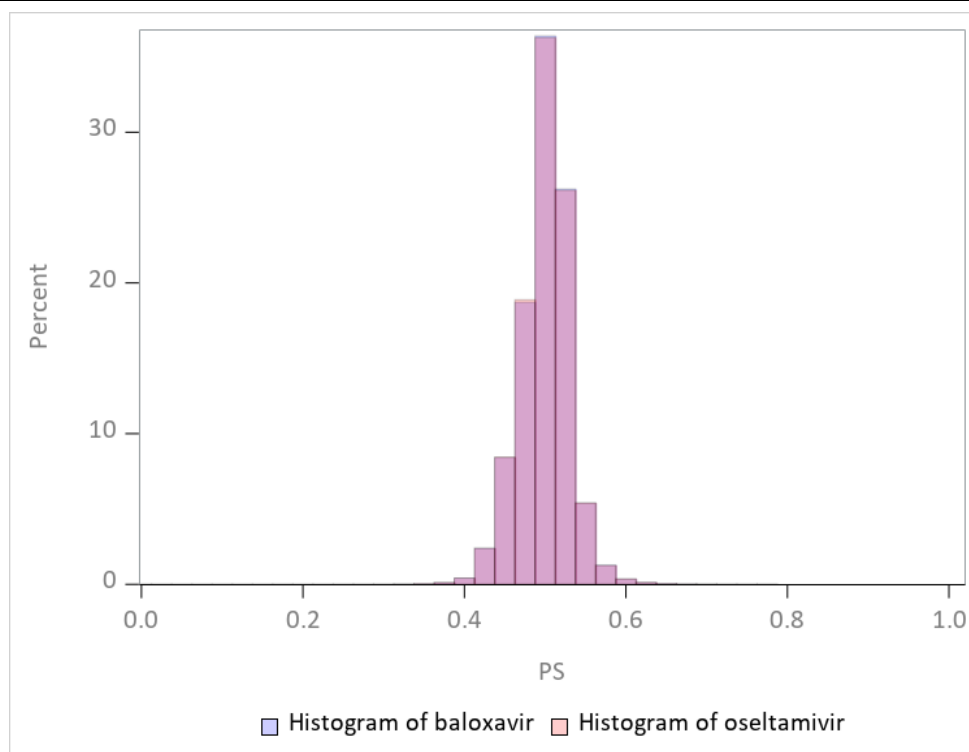


**Figure 1c. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

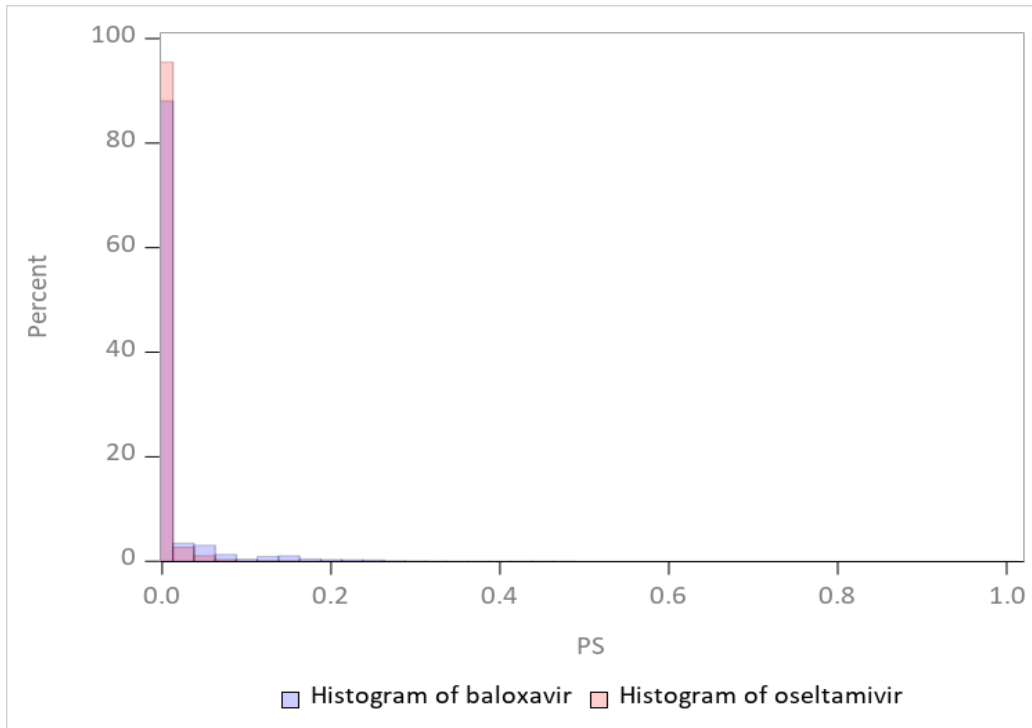


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

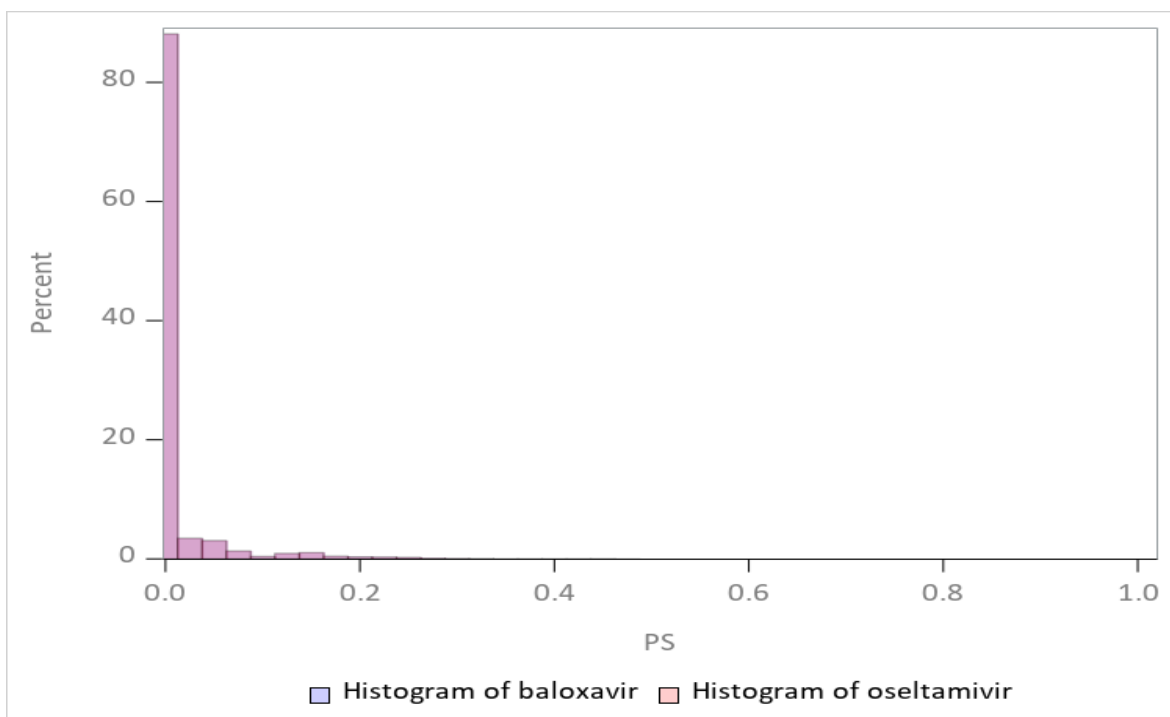


**Figure 2. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 to 18, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

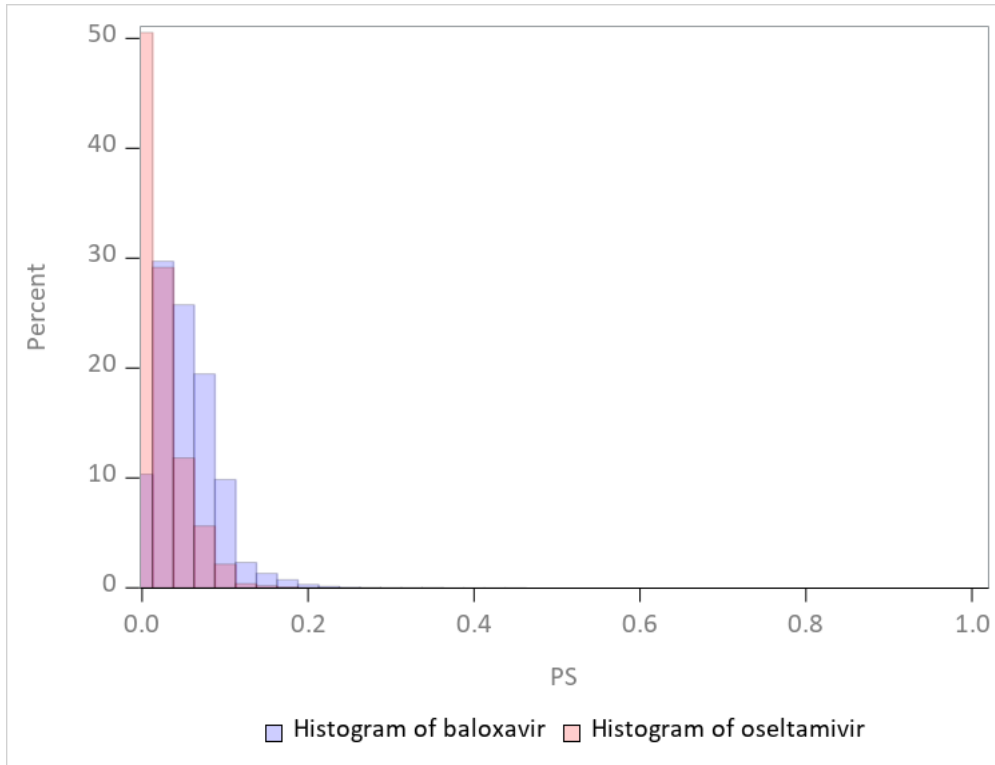


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

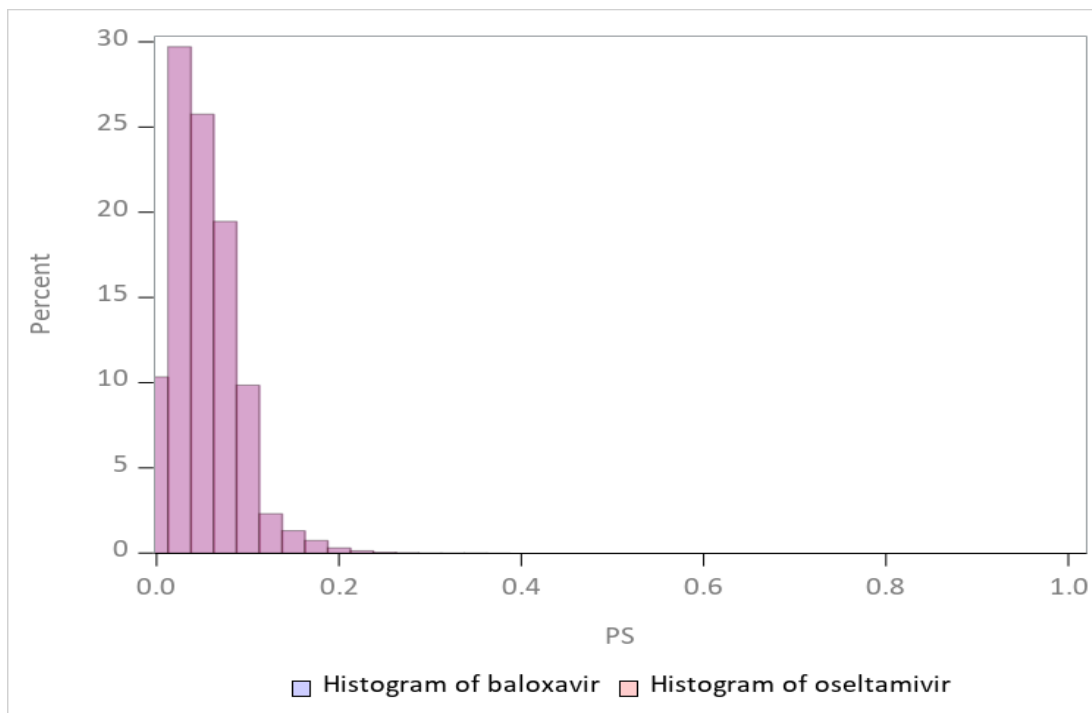


**Figure 3a. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution



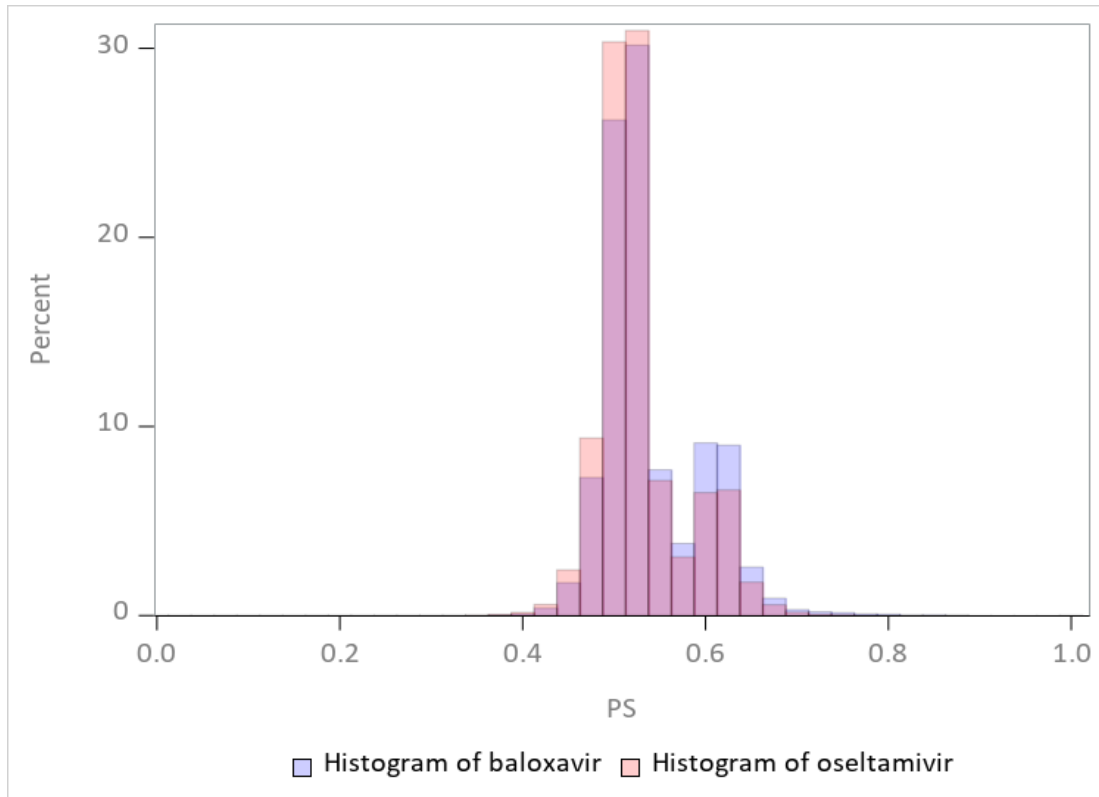
Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025



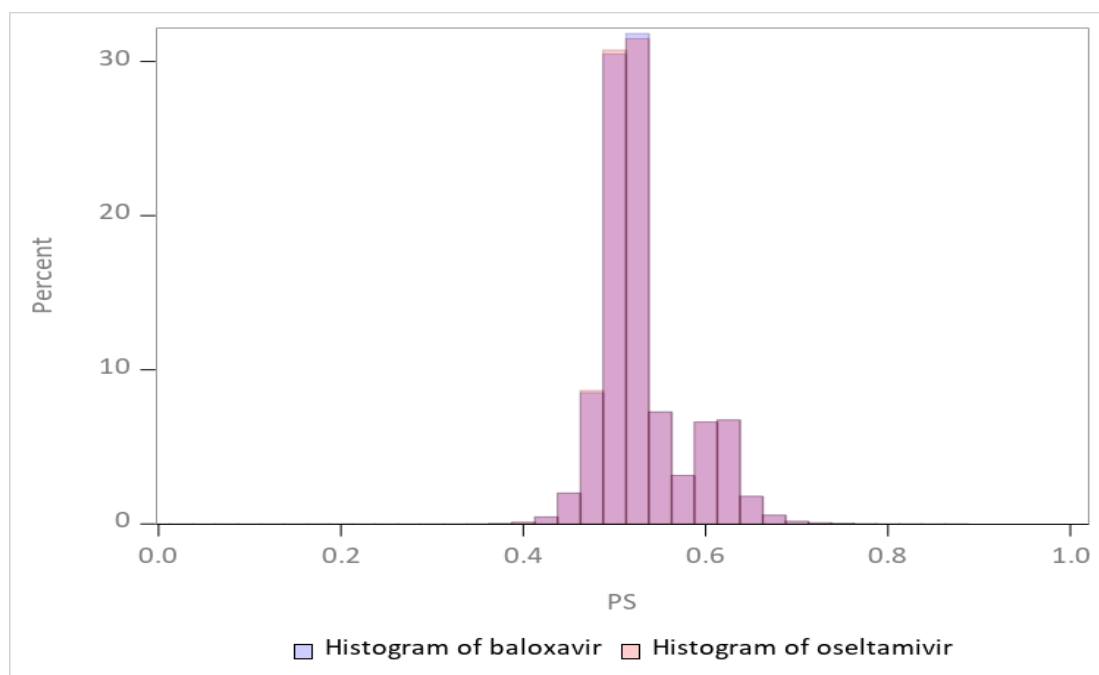


**Figure 3b. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

**Unadjusted Propensity Score Distribution**



**Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025**

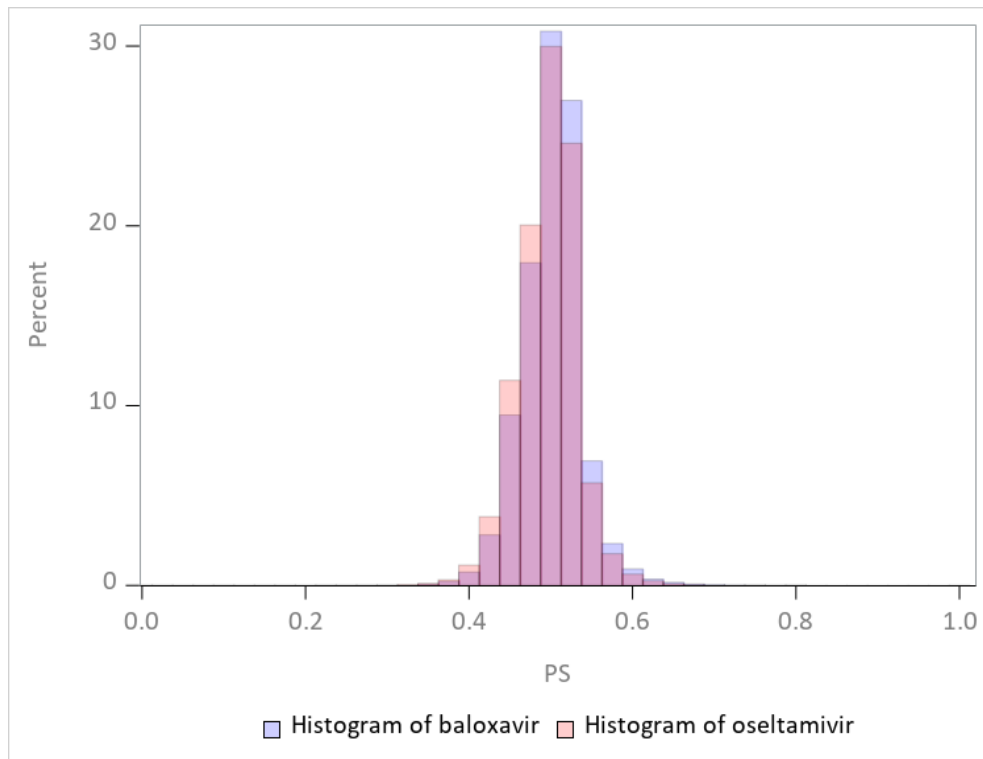




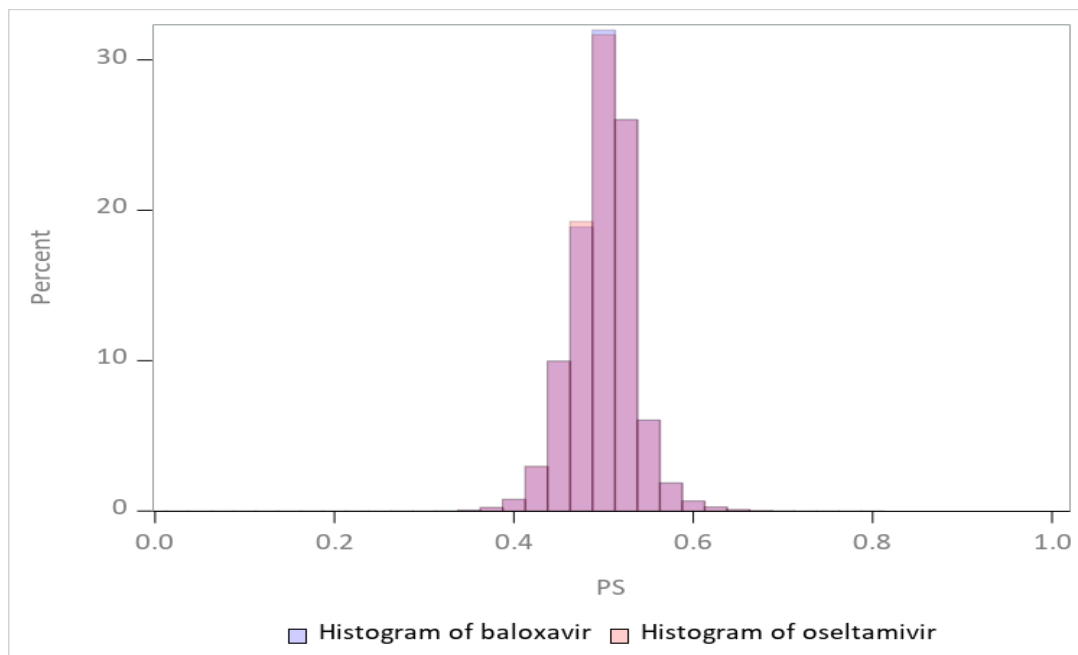


**Figure 3c. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023,**

**Unadjusted Propensity Score Distribution**

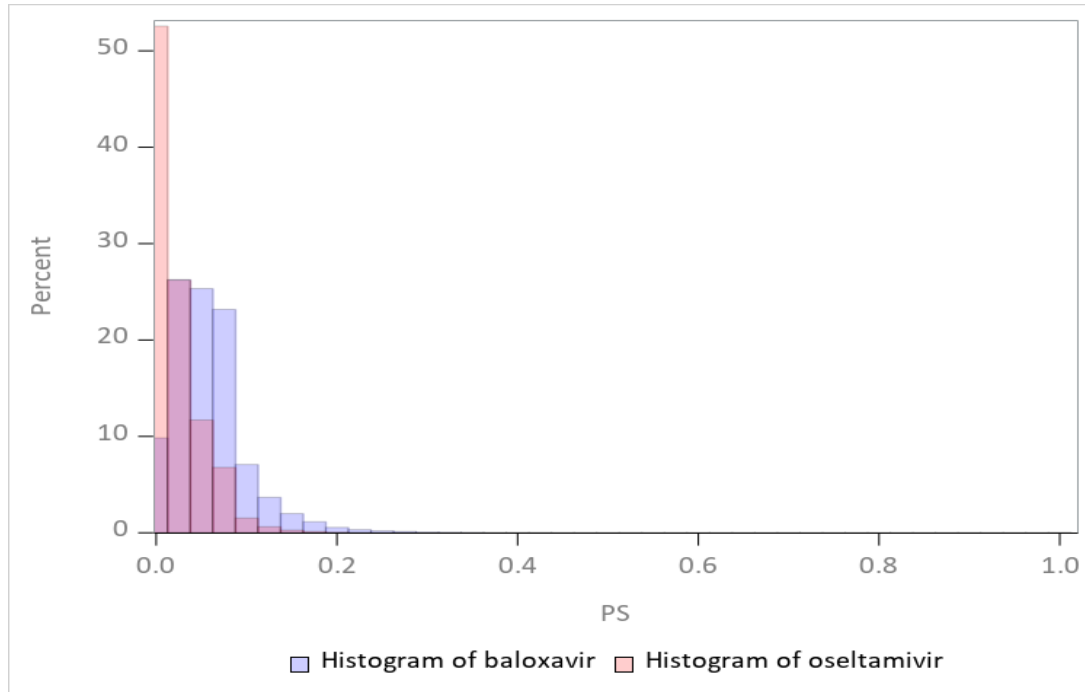


**Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025**

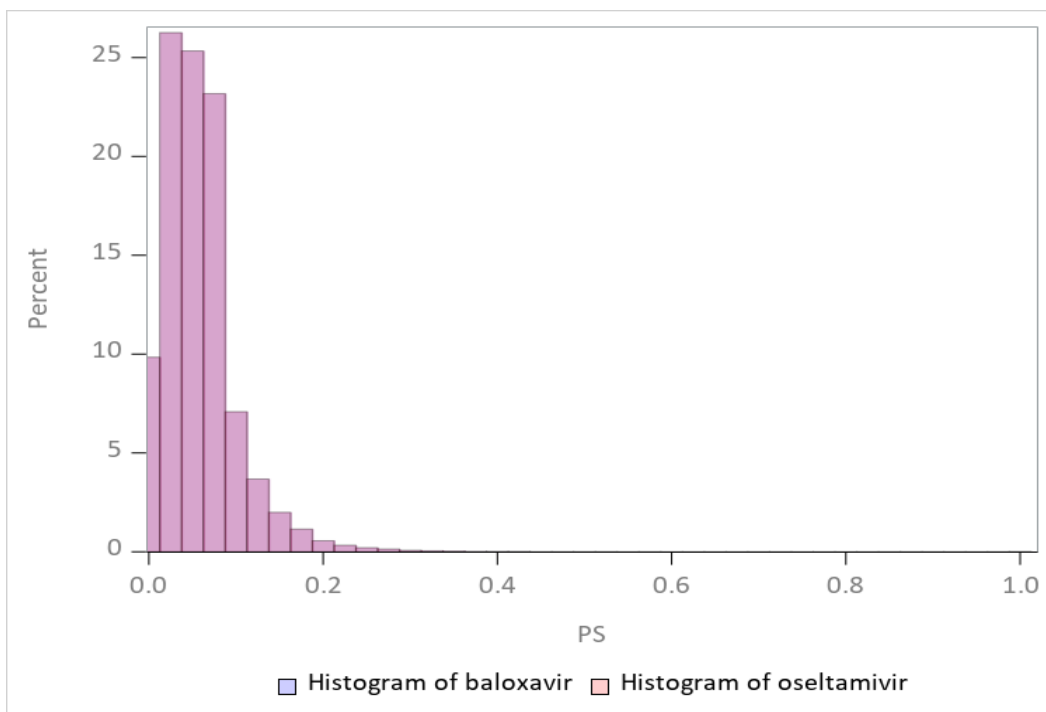


**Figure 4a. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

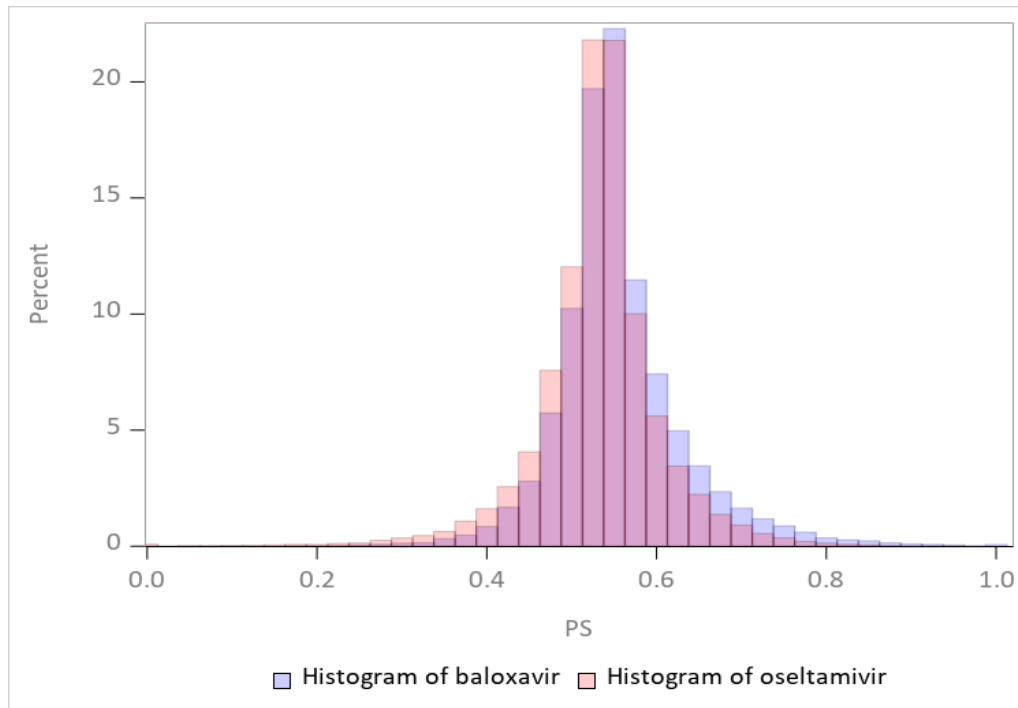


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

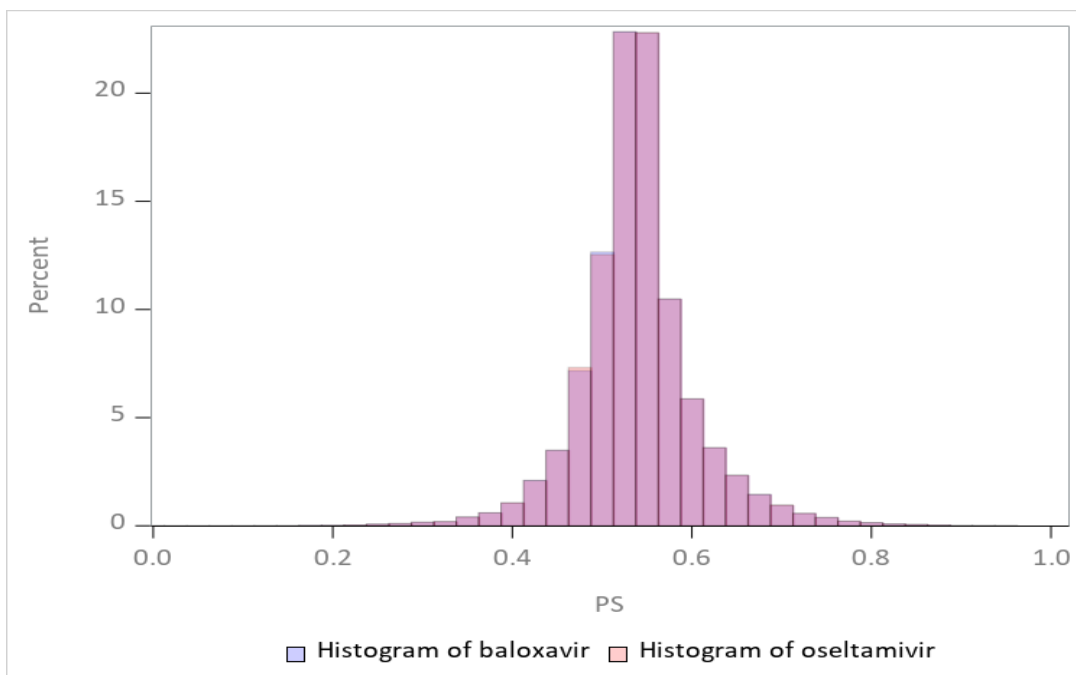


**Figure 4b. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

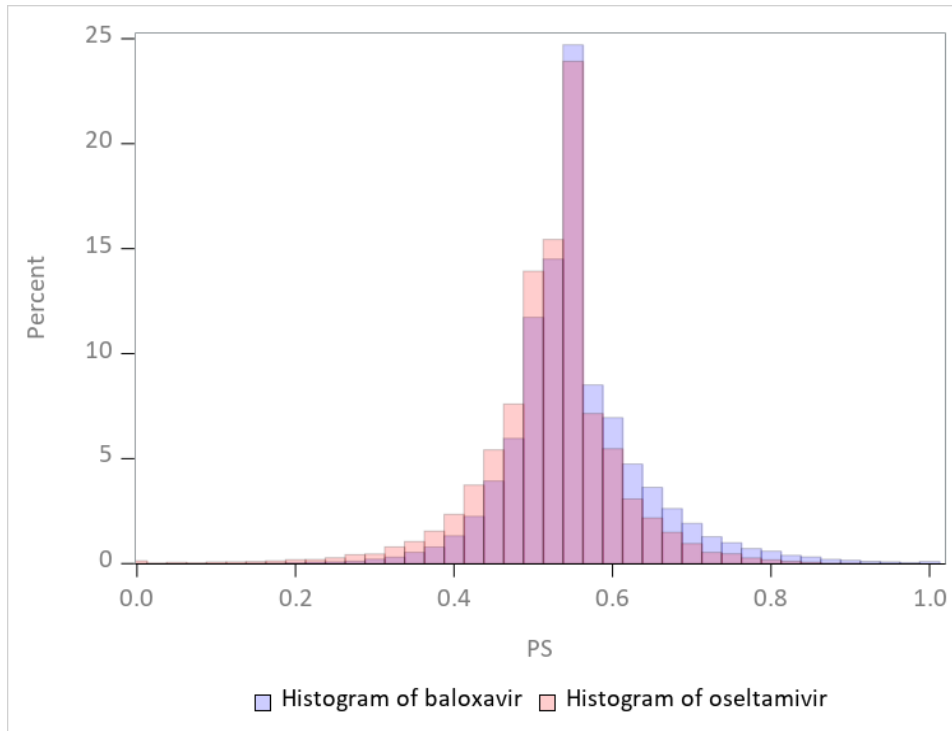


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

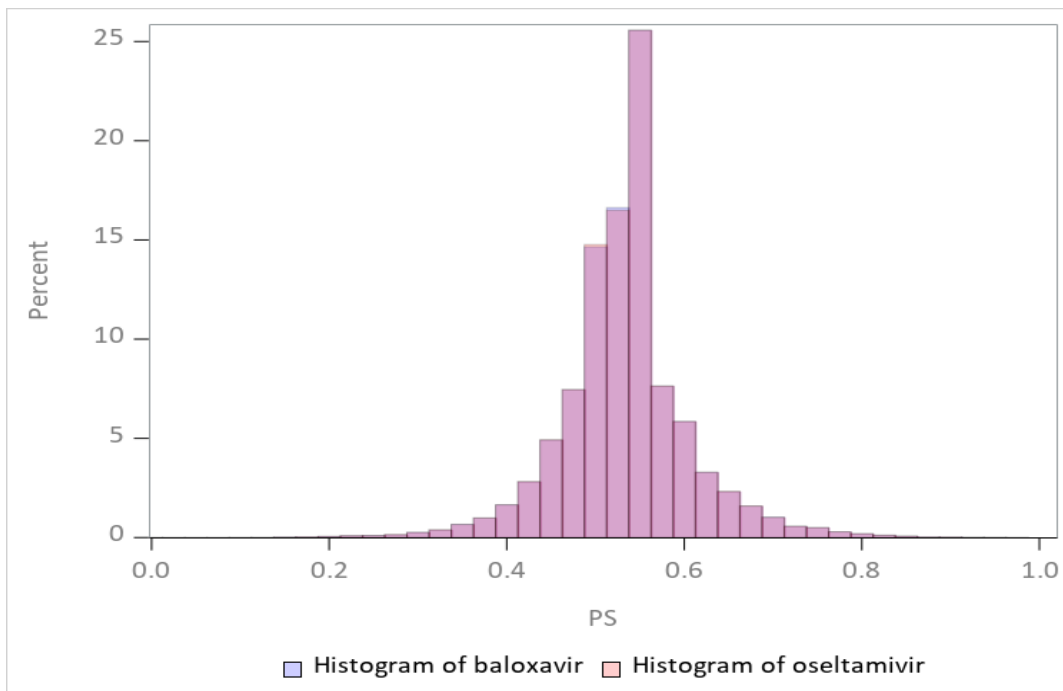


**Figure 4c. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

**Unadjusted Propensity Score Distribution**

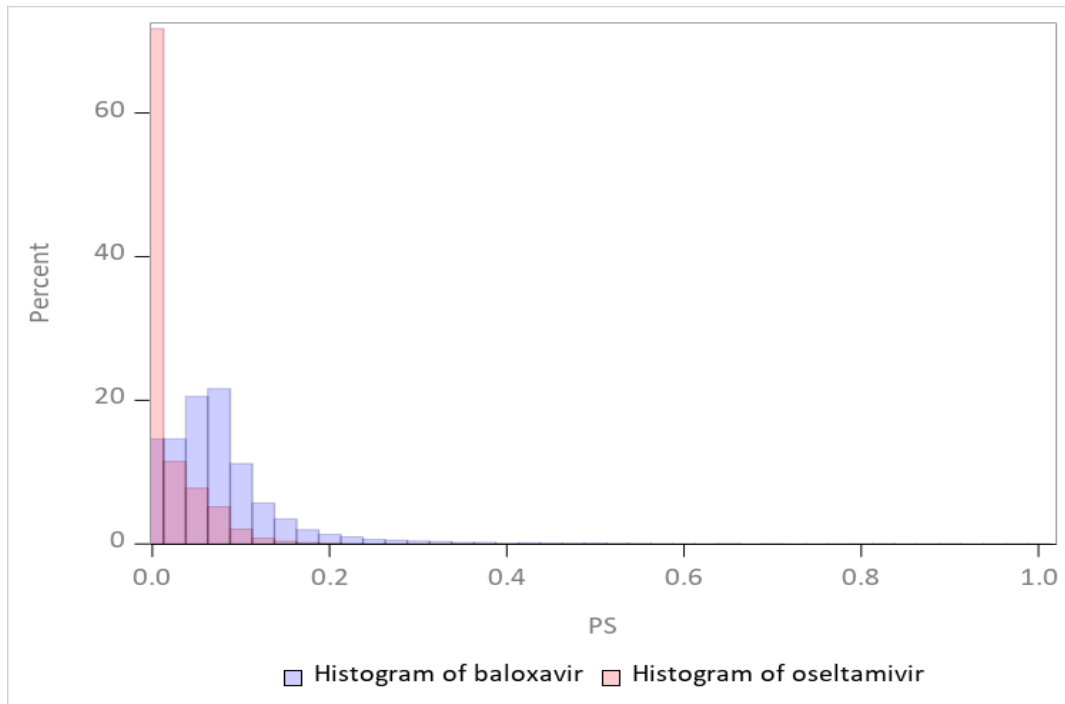


**Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025**

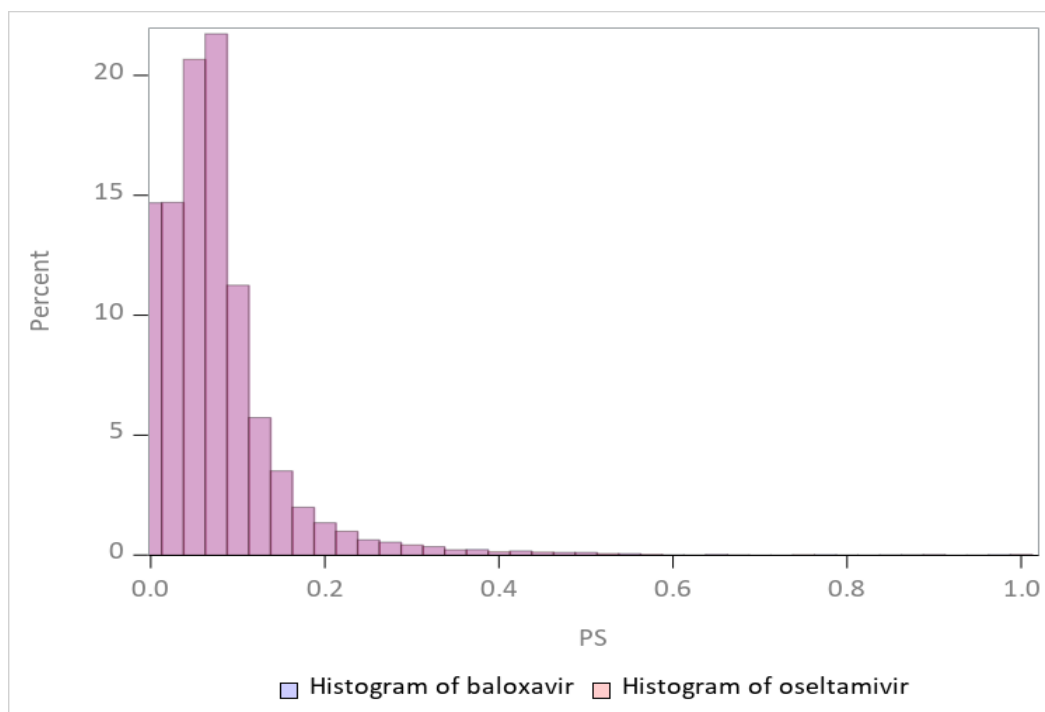


**Figure 5. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 to 18, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

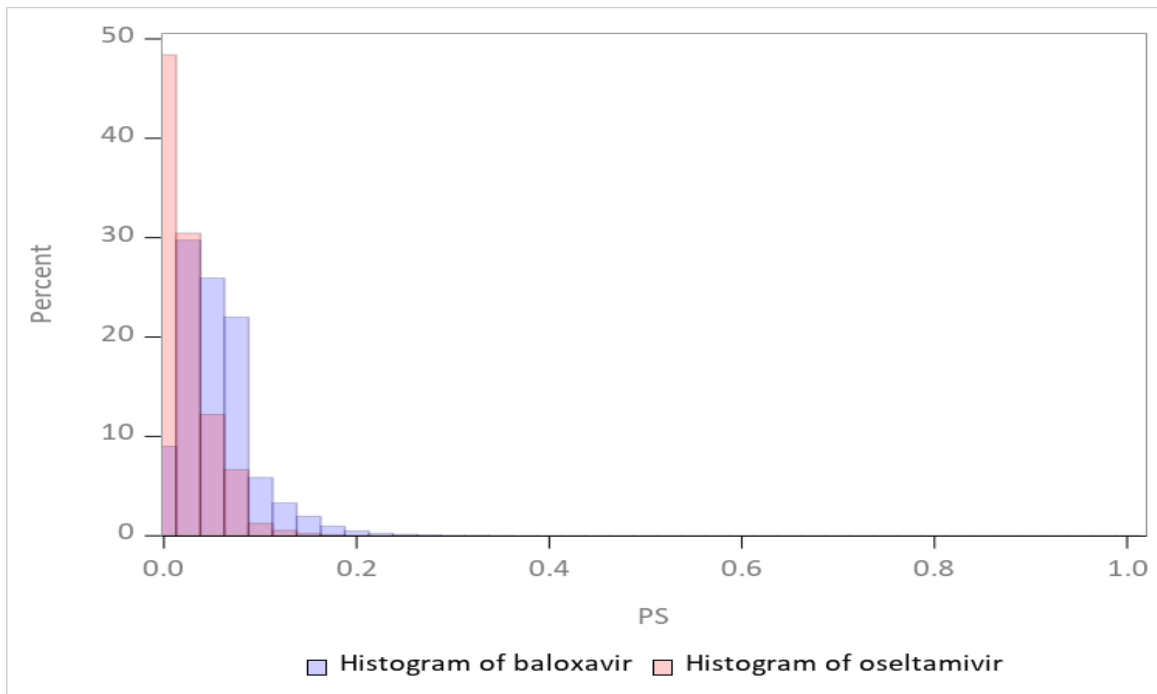


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

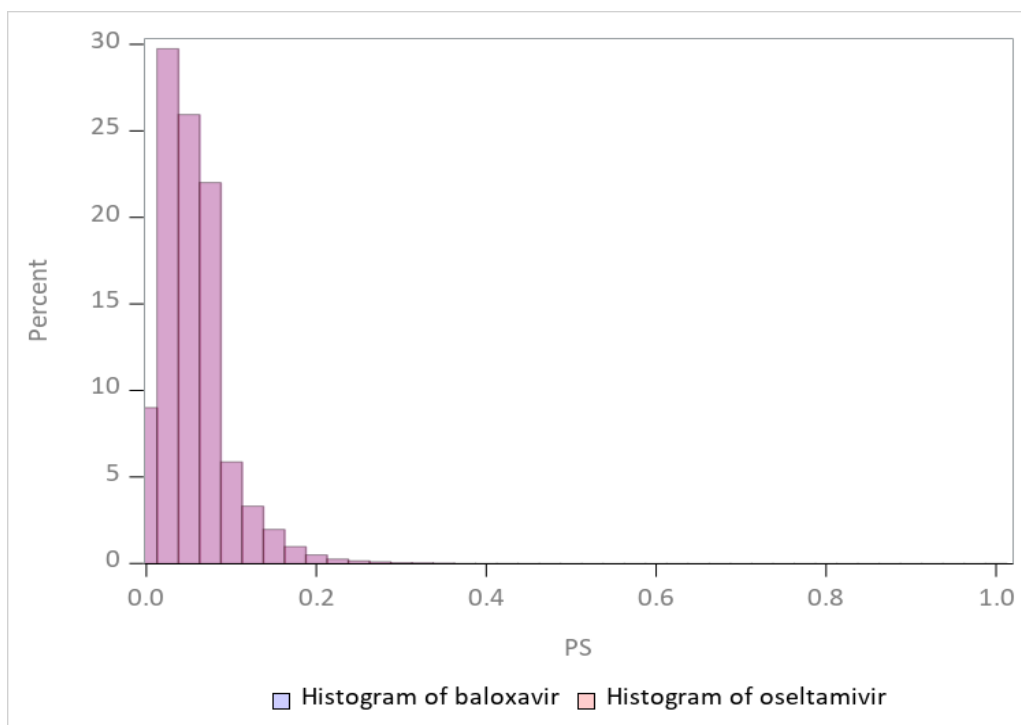


**Figure 6a. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

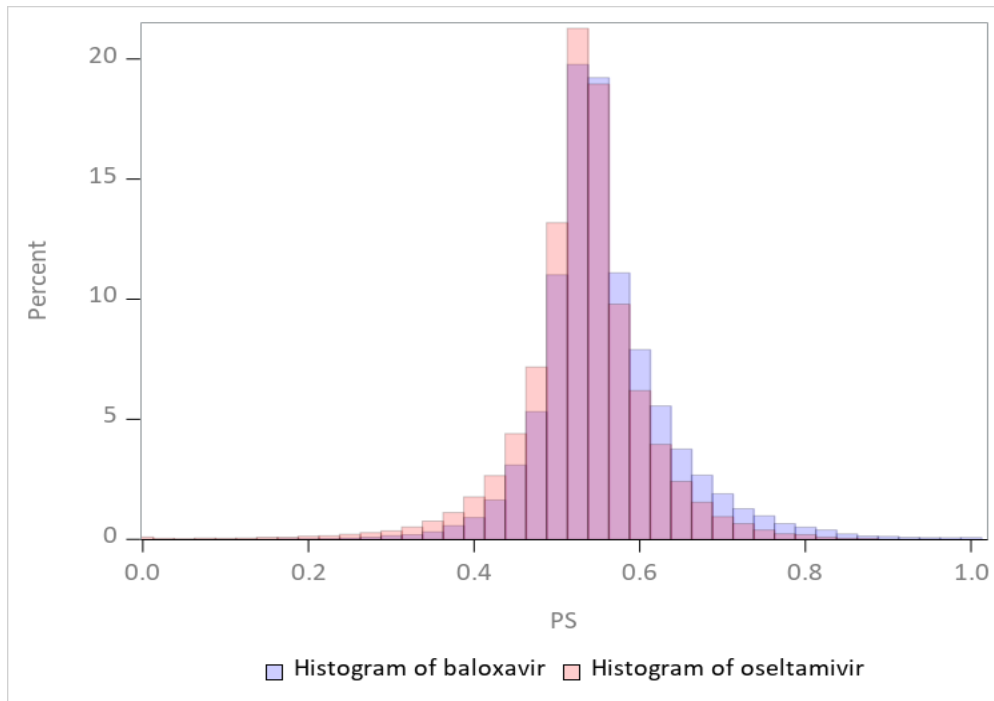


Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025

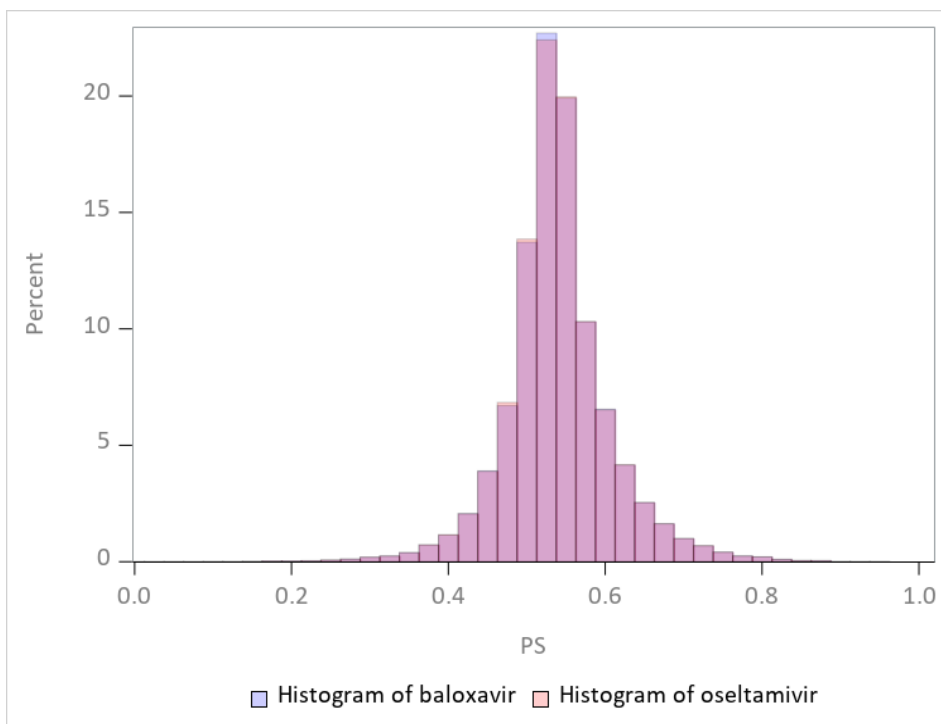


**Figure 6b. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

**Unadjusted Propensity Score Distribution**

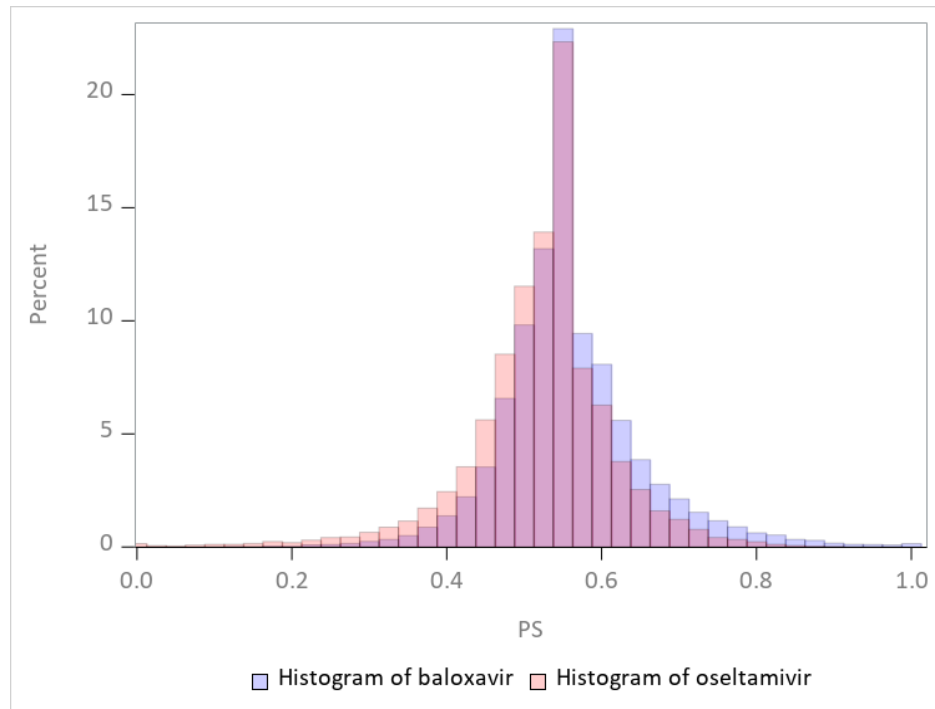


**Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025**

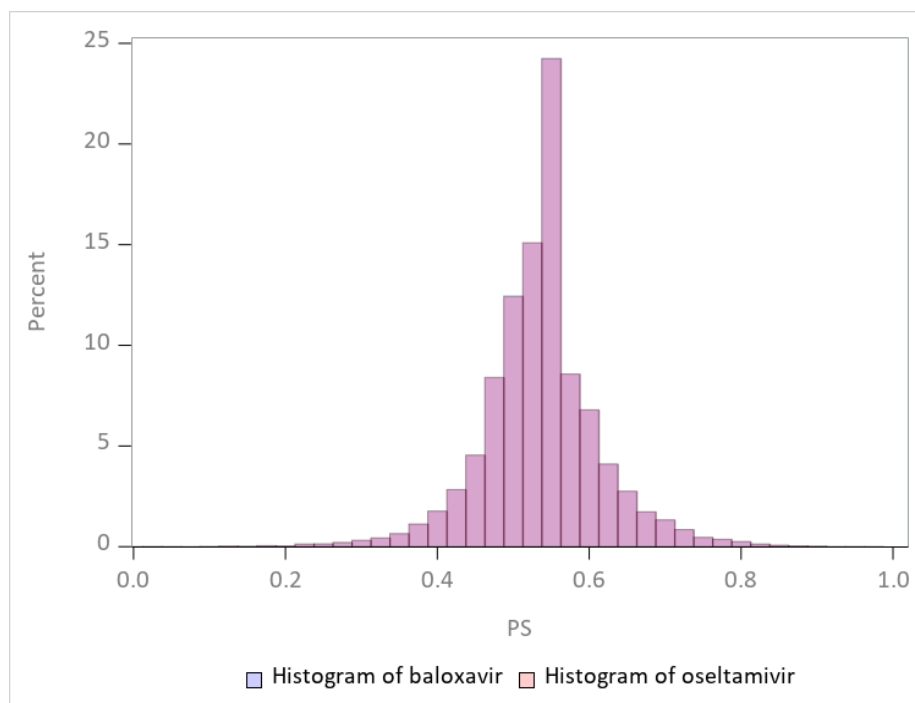


**Figure 6c. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, High Dimensional Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution



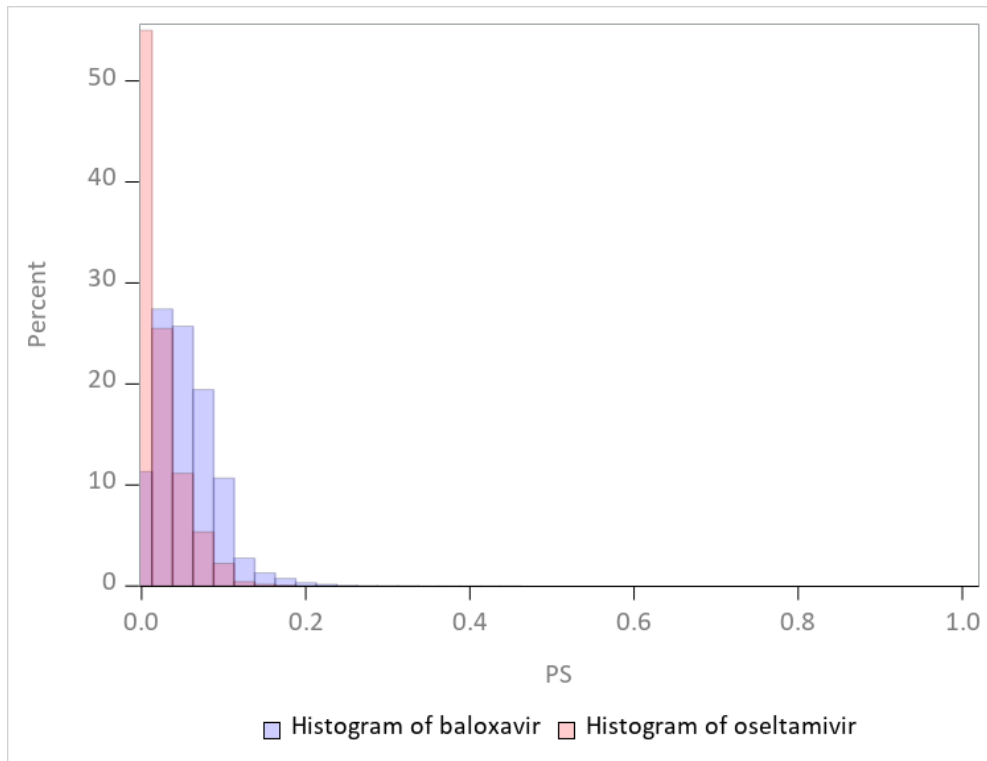
Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.025



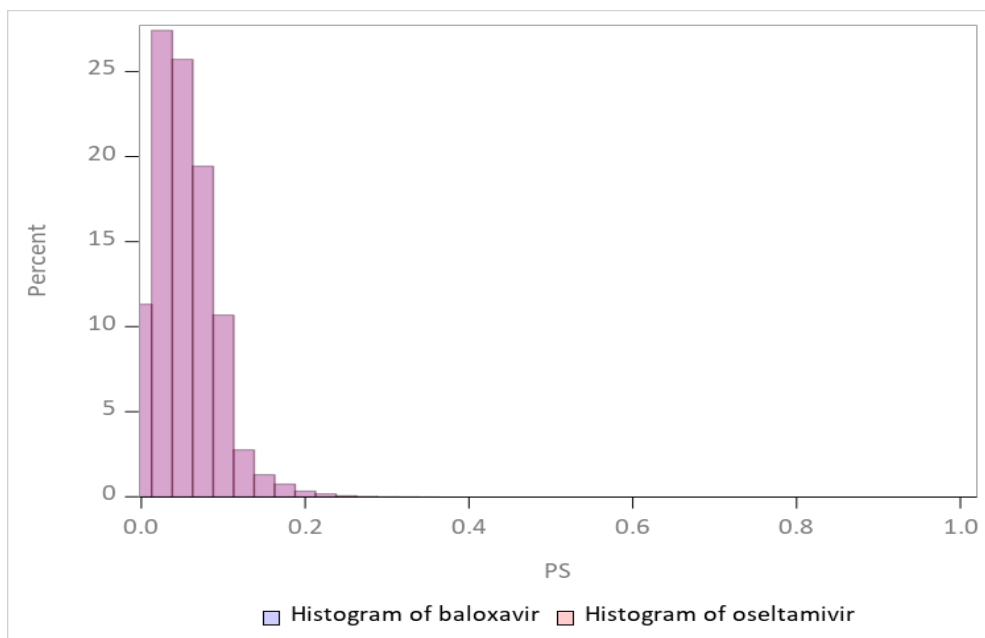


**Figure 7. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

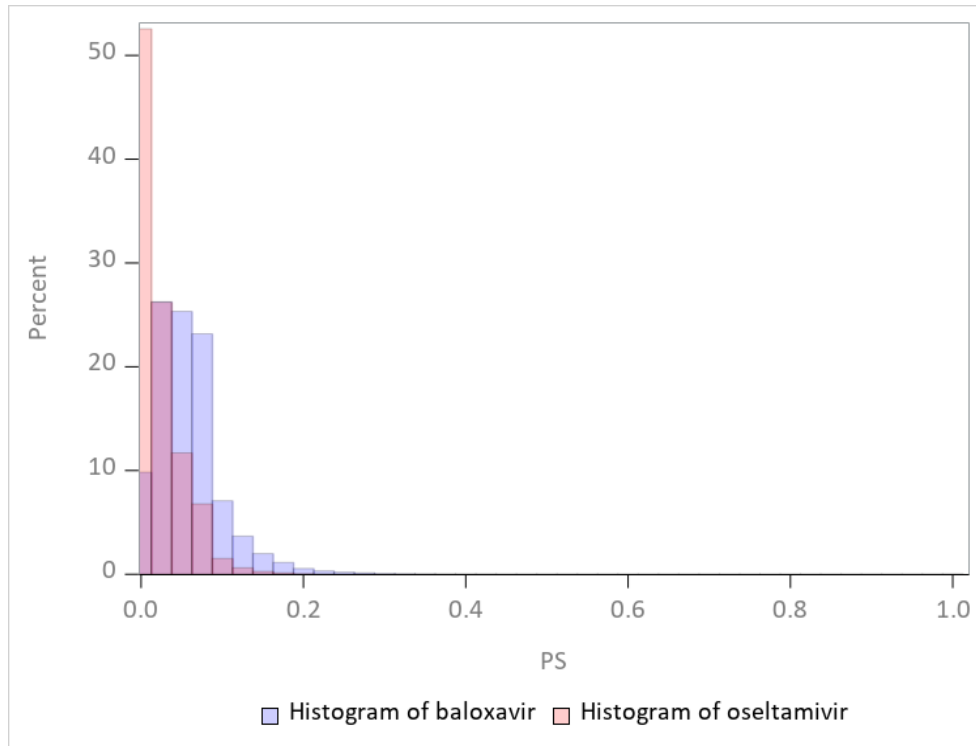


Propensity Score Fixed Ratio 1:2 Adjusted Cohort, Matched Caliper = 0.05

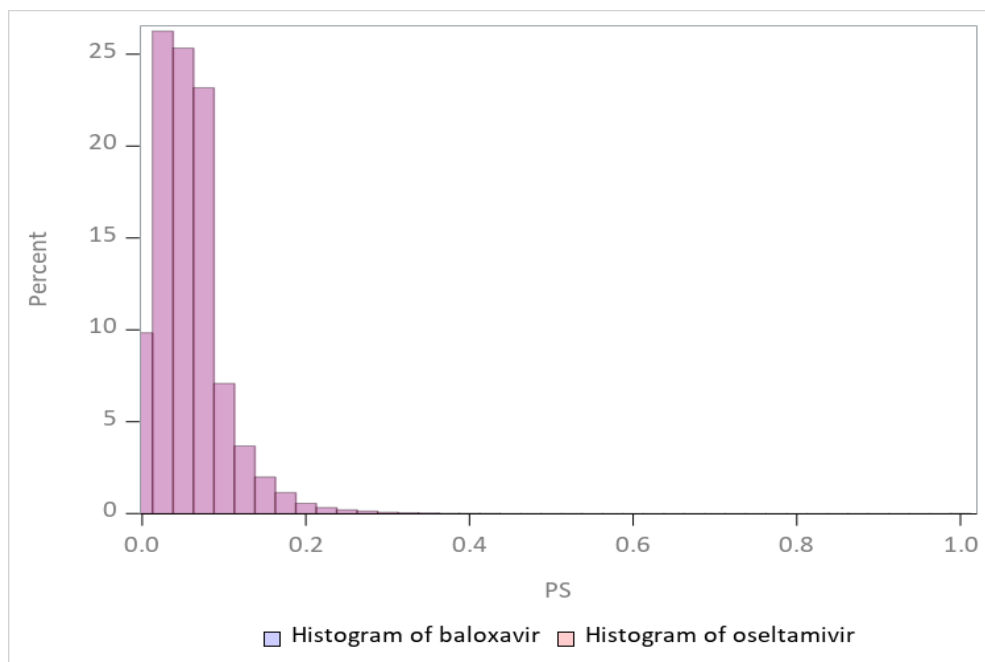


**Figure 8. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 12 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

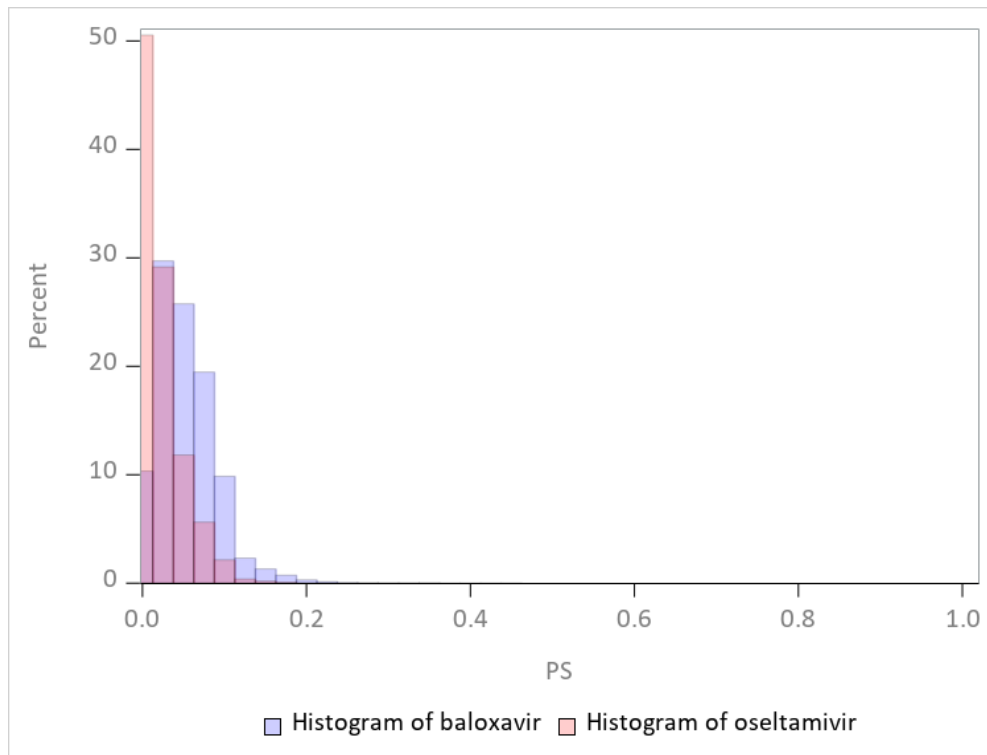


Propensity Score Fixed Ratio 1:2 Adjusted Cohort, Matched Caliper = 0.05

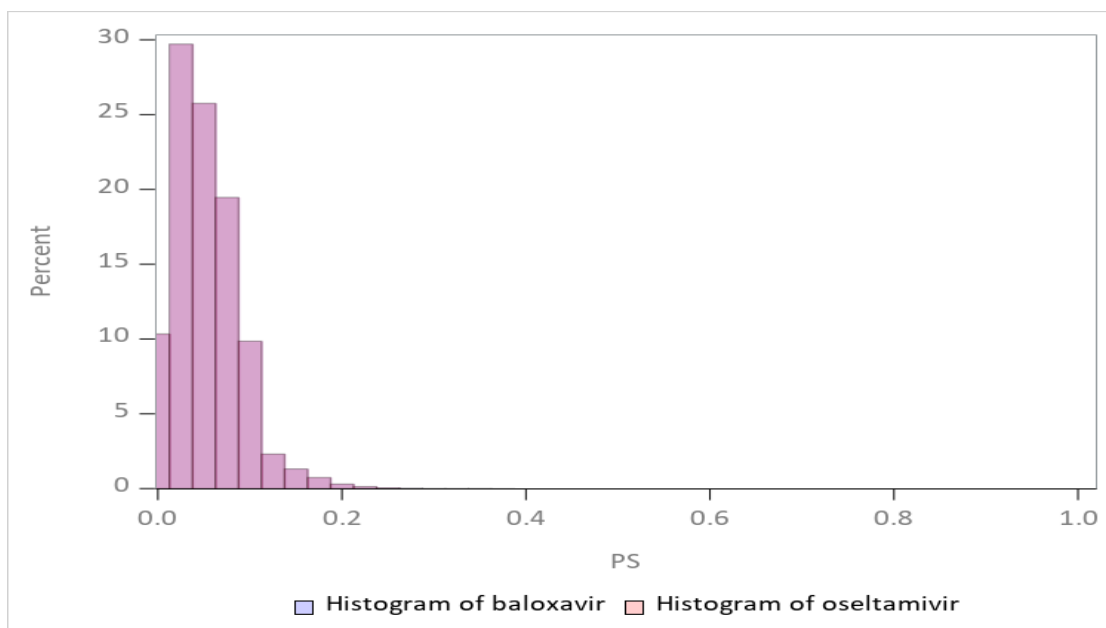


**Figure 9. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 19 and Older, Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution

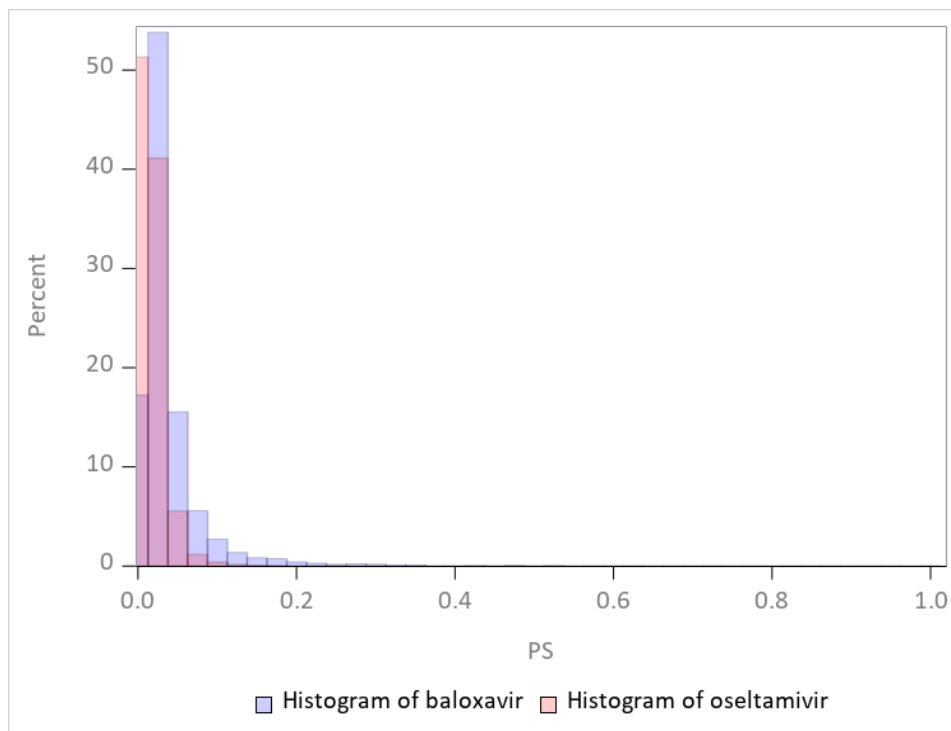


Propensity Score Fixed Ratio 1:2 Adjusted Cohort, Matched Caliper = 0.05

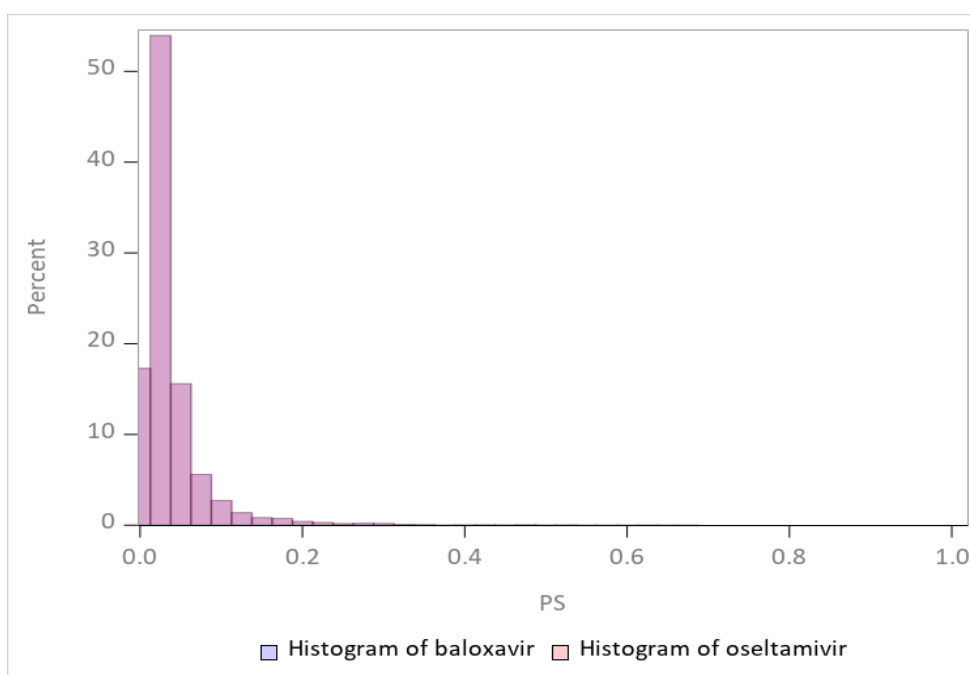


**Figure 10. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Baloxavir and Oseltamivir Users (Ages 65 and Older, High Dimensional Propensity Score Matched, Fixed Ratio 1:2, Caliper: 0.05) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023**

Unadjusted Propensity Score Distribution



Propensity Score Fixed Ratio 1:2 Adjusted Cohort, Matched Caliper = 0.05



**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (October 20, 2023)**

Masked DP ID	DP Start Date	DP End Date <sup>1</sup>
DP01	01/01/2006	02/28/2023
DP02	01/01/2007	01/31/2023
DP03	01/01/2008	12/31/2022
DP04	01/01/2014	12/31/2020
DP05	01/01/2008	04/30/2023
DP06	01/01/2010	12/31/2022

<sup>1</sup>End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	3.290	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP01	4100	Diagnosis	ICD-9-CM	Any	2.597	Acut Myocard Infarct Anterolat Wall
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.955	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	30233N1	Procedure	ICD-10-PCS	Any	1.637	Tran Nauto Red Bld Cll Periph Vn Pc
DP01	7809	Diagnosis	ICD-9-CM	Often	1.556	Other General Symptoms
DP01	0DJD8ZZ	Procedure	ICD-10-PCS	Any	1.373	Inspection Lw Intestinal Tract Endo
DP01	10D07Z6	Procedure	ICD-10-PCS	Any	1.315	Extraction Poc Vacuum Nat/Art Opg
DP01	7809	Diagnosis	ICD-9-CM	Any	1.281	Other General Symptoms
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.211	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.180	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP01	7809	Diagnosis	ICD-9-CM	Frequent	1.170	Other General Symptoms
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	1.170	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	0KQM0ZZ	Procedure	ICD-10-PCS	Any	1.116	Repair Perineum Muscle Open
DP01	S0281	Procedure	HCPCS	Often	1.114	Med Home Program Care Coord Maint
DP01	5A2204Z	Procedure	ICD-10-PCS	Any	1.104	Restoration Cardiac Rhythm Single
DP01	S0281	Procedure	HCPCS	Any	1.089	Med Home Program Care Coord Maint
DP01	0BQT4ZZ	Procedure	ICD-10-PCS	Any	1.079	Repair Diaphragm Percutaneous Endo
DP01	0DB64Z3	Procedure	ICD-10-PCS	Any	1.040	Excision Stomach Perq Endo Vertical
DP01	C1004	Dispensing	Drug Class	Frequent	1.027	Periodontal Product - Anti-Infectives
DP01	J10	Diagnosis	ICD-10-CM	Frequent	1.008	Flu D/T Oth Id Influenza Virus
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	1.000	Inspect Upper Intestine Tract Endo
DP01	B211YZZ	Procedure	ICD-10-PCS	Any	0.986	Fluro Multiple Cor Art Oth Cont
DP01	0BH17EZ	Procedure	ICD-10-PCS	Any	0.958	Insrt Et Aw Trachea Nat/Art Opening
DP01	02HV33Z	Procedure	ICD-10-PCS	Any	0.914	Insrt Infus Devc Sup Vena Cava Perq
DP01	0T778DZ	Procedure	ICD-10-PCS	Any	0.914	Dil Lt Ureter Il Nat/Art Opng Endo
DP01	10907ZC	Procedure	ICD-10-PCS	Any	0.914	Drain Amnio Fluid Tx Poc Nat/Art Op
DP01	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.911	Resect Lumbar Vertebral Disc Open
DP01	XW033E5	Procedure	ICD-10-PCS	Any	0.867	Intr Remdesivir Periph Vn Perc Nt5
DP01	5A09357	Procedure	ICD-10-PCS	Any	0.858	Asst W/Resp Vent < 24 Con Hour Cpap
DP01	10E0XZZ	Procedure	ICD-10-PCS	Any	0.841	Delivery Products Of Conception Ext
DP01	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.823	Monitor Prod Concept Cardi Rate Ext
DP01	0SRD0J9	Procedure	ICD-10-PCS	Any	0.821	Repl L Knee Joint Synth Cmentd Open

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	0UQMXZZ	Procedure	ICD-10-PCS	Any	0.812	Repair Vulva External
DP01	G8510	Procedure	HCPCS	Any	0.764	Scr Depr Doc Neg A F/U Plan Not Rqr
DP01	G2023	Procedure	HCPCS	Frequent	0.761	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	S9083	Procedure	HCPCS	Any	0.741	Global Fee Urgent Care Centers
DP01	A0429	Procedure	HCPCS	Any	0.731	Amb Service Bls Emergency Transport
DP01	0DB78ZX	Procedure	ICD-10-PCS	Any	0.717	Exc Stom Pylorus Nat/Art Op Endo Dx
DP01	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.717	Intro Anes Agt Periph Nrv&Plexi Pc
DP01	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.680	Extirpatn Matter Cmn Bile Duct Endo
DP01	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.680	Repair Perineum Skin Ext Approach
DP01	0UT20ZZ	Procedure	ICD-10-PCS	Any	0.680	Resection Bilateral Ovaries Open
DP01	3E033XZ	Procedure	ICD-10-PCS	Any	0.680	Intro Vasopressor Periph Vn Perq
DP01	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.661	Excision Of Left Saphenous Vein Pe
DP01	0T9B70Z	Procedure	ICD-10-PCS	Any	0.641	Drain Bladder Drain Devc Nat/Art Op
DP01	3E02340	Procedure	ICD-10-PCS	Any	0.641	Intro Influenza Vaccne Muscle Perq
DP01	ORG20A0	Procedure	ICD-10-PCS	Any	0.628	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.623	Ex Duodenum Nat/Art Opening Endo Dx
DP01	3E033VJ	Procedure	ICD-10-PCS	Any	0.614	Intro Oth Hormone Periph Vn Perq
DP01	C679	Dispensing	Drug Class	Frequent	0.607	Factor Ix Preparations
DP01	0BJ08ZZ	Procedure	ICD-10-PCS	Any	0.601	Inspection Tbt Nat/Art Opening Endo
DP01	B2151ZZ	Procedure	ICD-10-PCS	Any	0.601	Fluoro Lt Heart Low Osmolar Contrst
DP01	B35	Diagnosis	ICD-10-CM	Frequent	0.597	Dermatophytosis
DP01	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.581	Ex Sig Colon Via Nat/Art Op Endo Dx
DP01	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.581	Inspection Bladder Nat/Art Opn Endo
DP01	02100Z9	Procedure	ICD-10-PCS	Any	0.570	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP01	C338	Dispensing	Drug Class	Frequent	0.564	Antithyroid Agents
DP01	0SB40ZZ	Procedure	ICD-10-PCS	Any	0.560	Excision Of Lumbosacral Disc Open
DP01	J1650	Procedure	HCPCS	Frequent	0.553	Injection Enoxaparin Sodium 10 Mg
DP01	J1650	Procedure	HCPCS	Any	0.544	Injection Enoxaparin Sodium 10 Mg
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	0.538	Drainage Spinal Canal Perq Appr Dx
DP01	S0612	Procedure	HCPCS	Any	0.525	Annual Gyn Examination Est Patient
DP01	G2023	Procedure	HCPCS	Any	0.520	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	A7033	Procedure	HCPCS	Frequent	0.517	Pillw Nasl Cannula Type Intf Repl

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	07DR3ZX	Procedure	ICD-10-PCS	Any	0.516	Extrct Iliac Bone Marrow Perq Dx
DP01	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.512	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.510	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.499	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.474	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	E1390	Procedure	HCPCS	Any	0.473	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP01	OSG00AJ	Procedure	ICD-10-PCS	Any	0.472	Fusion Lv Joint If Post Appr Ac Opn
DP01	OSG00A0	Procedure	ICD-10-PCS	Any	0.471	Fusion Lv Joint If Ant Appr Ac Open
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.470	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	C1004	Dispensing	Drug Class	Often	0.464	Periodontal Product - Anti-Infectives
DP01	87426	Procedure	CPT	Any	0.463	Sarscov Coronavirus Ag Ia
DP01	E11	Diagnosis	ICD-10-CM	Frequent	0.462	Type 2 Diabetes Mellitus
DP01	A0425	Procedure	HCPCS	Any	0.456	Ground Mileage Per Statute Mile
DP01	G0463	Procedure	HCPCS	Frequent	0.449	Hos Op Clin Visit Assess & Mgmt Pt
DP01	0F798DZ	Procedure	ICD-10-PCS	Any	0.447	Dil Cmn Bd W II Dev Nat/Art Op Endo
DP01	C1004	Dispensing	Drug Class	Any	0.444	Periodontal Product - Anti-Infectives
DP01	S9088	Procedure	HCPCS	Any	0.442	Services Prov An Urgent Care Center
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.439	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	J0696	Procedure	HCPCS	Any	0.434	Inj Ceftriaxone Sodium Per 250 Mg
DP01	87804	Procedure	CPT	Any	0.430	Influenza Assay W/Optic
DP01	A4604	Procedure	HCPCS	Frequent	0.425	Tubing W/Intgr Heat Elem W/Pap Devc
DP01	0W9930Z	Procedure	ICD-10-PCS	Any	0.423	Drainage Rt Pleural Cav Drn Devc Pc
DP01	G8427	Procedure	HCPCS	Frequent	0.423	Elig Clin Doc M Updtd Rec Pt Meds
DP01	C679	Dispensing	Drug Class	Often	0.422	Factor Ix Preparations
DP01	E1390	Procedure	HCPCS	Often	0.413	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP01	G0103	Procedure	HCPCS	Any	0.413	Prostate Cancer Screening; Psa Test
DP01	H40	Diagnosis	ICD-10-CM	Frequent	0.405	Glaucoma
DP01	Z88	Diagnosis	ICD-10-CM	Frequent	0.401	Allergy Status Rx Meds&Biol Sbstnc
DP01	A7034	Procedure	HCPCS	Frequent	0.396	Nasl Interfce Pos Arway Prss Devc
DP01	U0004	Procedure	HCPCS	Any	0.396	2019-Ncov Cronavirus/Covid-19 Any T
DP01	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.386	Intro Hormone Fe Repr Nat/Art Open
DP01	A4232	Procedure	HCPCS	Any	0.386	Syringe Ndle Ext Insulin Pump Sterl



**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	C338	Dispensing	Drug Class	Often	0.384	Antithyroid Agents
DP01	OFT44ZZ	Procedure	ICD-10-PCS	Any	0.378	Resect Gallbladder Perq Endo Appr
DP01	B24BZZ4	Procedure	ICD-10-PCS	Any	0.378	Usg Heart Aorta Transesophageal
DP01	J1100	Procedure	HCPCS	Any	0.377	Inj Dexmethoson Sodim Phoshate 1 Mg
DP02	A0100	Procedure	HCPCS	Frequent	3.061	Nonemergency Transportation; Taxi
DP02	J10	Diagnosis	ICD-10-CM	Frequent	2.765	Flu D/T Oth Id Influenza Virus
DP02	G9903	Procedure	HCPCS	Any	2.433	Pt Scr Tob Use & Id As Tob Non-User
DP02	3078F	Procedure	CPT	Frequent	1.969	Diast Bp <80 Mm Hg
DP02	1159F	Procedure	CPT	Frequent	1.892	Med List Docd In Rcrd
DP02	1170F	Procedure	CPT	Any	1.891	Fxnl Status Assessed
DP02	3078F	Procedure	CPT	Often	1.883	Diast Bp <80 Mm Hg
DP02	1160F	Procedure	CPT	Frequent	1.848	Rvw Meds By Rx/Dr In Rcrd
DP02	3074F	Procedure	CPT	Frequent	1.824	Syst Bp Lt 130 Mm Hg
DP02	G8427	Procedure	HCPCS	Any	1.811	Elig Clin Doc M Updtd Rec Pt Meds
DP02	1159F	Procedure	CPT	Any	1.805	Med List Docd In Rcrd
DP02	1159F	Procedure	CPT	Often	1.790	Med List Docd In Rcrd
DP02	3074F	Procedure	CPT	Any	1.781	Syst Bp Lt 130 Mm Hg
DP02	3078F	Procedure	CPT	Any	1.780	Diast Bp <80 Mm Hg
DP02	G8427	Procedure	HCPCS	Frequent	1.751	Elig Clin Doc M Updtd Rec Pt Meds
DP02	1160F	Procedure	CPT	Any	1.745	Rvw Meds By Rx/Dr In Rcrd
DP02	1160F	Procedure	CPT	Often	1.744	Rvw Meds By Rx/Dr In Rcrd
DP02	0DB68ZX	Procedure	ICD-10-PCS	Any	1.689	Exc Stomach Nat/Art Opening Endo Dx
DP02	5A09357	Procedure	ICD-10-PCS	Any	1.579	Asst W/Resp Vent < 24 Con Hour Cpap
DP02	A0100	Procedure	HCPCS	Often	1.537	Nonemergency Transportation; Taxi
DP02	J10	Diagnosis	ICD-10-CM	Often	1.454	Flu D/T Oth Id Influenza Virus
DP02	B24BZZZ	Procedure	ICD-10-PCS	Any	1.432	Ultrasonography Of Heart With Aorta
DP02	94640	Procedure	CPT	Frequent	1.416	Airway Inhalation Treatment
DP02	99499	Procedure	CPT	Frequent	1.373	Unlisted E&M Service
DP02	02HK3JZ	Procedure	ICD-10-PCS	Any	1.369	Ins Pacemakr Lead Rt Ventricle Perq
DP02	C45	Dispensing	Drug Class	Frequent	1.352	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP02	A0100	Procedure	HCPCS	Any	1.348	Nonemergency Transportation; Taxi
DP02	02H63JZ	Procedure	ICD-10-PCS	Any	1.200	Insert Pacemkr Lead Rt Atrium Perq

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	0JH606Z	Procedure	ICD-10-PCS	Any	1.200	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP02	C44	Dispensing	Drug Class	Frequent	1.170	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	G0467	Procedure	HCPCS	Often	1.141	Fqhc Visit Established Patient
DP02	0DB78ZX	Procedure	ICD-10-PCS	Any	1.136	Exc Stom Pylorus Nat/Art Op Endo Dx
DP02	J1650	Procedure	HCPCS	Frequent	1.129	Injection Enoxaparin Sodium 10 Mg
DP02	XW033E5	Procedure	ICD-10-PCS	Any	1.120	Intr Remdesivir Periph Vn Perc Nt5
DP02	B2151ZZ	Procedure	ICD-10-PCS	Any	1.051	Fluoro Lt Heart Low Osmolar Contrst
DP02	J7030	Procedure	HCPCS	Frequent	1.035	Infus Normal Saline Sol 1000 Cc
DP02	027034Z	Procedure	ICD-10-PCS	Any	1.027	Dil Ca 1 Art Rx-Elut II Devc Perq
DP02	0SG0071	Procedure	ICD-10-PCS	Any	1.014	Fusion Lv Joint Auto Sub Post Pc Op
DP02	G0467	Procedure	HCPCS	Any	1.013	Fqhc Visit Established Patient
DP02	83605	Procedure	CPT	Any	0.981	Assay Of Lactic Acid
DP02	I70	Diagnosis	ICD-10-CM	Frequent	0.976	Atherosclerosis
DP02	A0429	Procedure	HCPCS	Any	0.958	Amb Service Bls Emergency Transport
DP02	G0157	Procedure	HCPCS	Frequent	0.954	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	B2111ZZ	Procedure	ICD-10-PCS	Any	0.953	Fluoro Mx Cor Art Low Osmolar Cont
DP02	4A023N7	Procedure	ICD-10-PCS	Any	0.939	Measur Card Sampl Press Lt Heart Pc
DP02	0SG00AJ	Procedure	ICD-10-PCS	Any	0.937	Fusion Lv Joint If Post Appr Ac Opn
DP02	J1650	Procedure	HCPCS	Any	0.937	Injection Enoxaparin Sodium 10 Mg
DP02	94640	Procedure	CPT	Any	0.929	Airway Inhalation Treatment
DP02	99499	Procedure	CPT	Any	0.919	Unlisted E&M Service
DP02	0SB20ZZ	Procedure	ICD-10-PCS	Any	0.917	Excision Lumbar Vertebral Disc Open
DP02	G0467	Procedure	HCPCS	Frequent	0.917	Fqhc Visit Established Patient
DP02	G0152	Procedure	HCPCS	Any	0.911	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.904	Inspect Upper Intestine Tract Endo
DP02	G0157	Procedure	HCPCS	Any	0.888	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	03HY32Z	Procedure	ICD-10-PCS	Any	0.876	Insert Monit Devc Upper Artery Perq
DP02	C376	Dispensing	Drug Class	Frequent	0.861	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant - Amphetamines And Combinations / Narcolepsy Therapy Agents - Stimulant
DP02	G0152	Procedure	HCPCS	Frequent	0.861	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	G0378	Procedure	HCPCS	Any	0.859	Hospital Observatn Service Per Hour
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.855	Utilization Of Unique ICD-10-Pcs Procedure Codes

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	I70	Diagnosis	ICD-10-CM	Any	0.854	Atherosclerosis
DP02	C122	Dispensing	Drug Class	Often	0.847	Anticoagulants - Indanedione
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.843	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	G0483	Procedure	HCPCS	Frequent	0.839	Dr Tst Defin Dr Id M P D 22/M Dr Cl
DP02	C122	Dispensing	Drug Class	Any	0.835	Anticoagulants - Indanedione
DP02	009U3ZX	Procedure	ICD-10-PCS	Any	0.832	Drainage Spinal Canal Perq Appr Dx
DP02	G0152	Procedure	HCPCS	Often	0.810	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	J2930	Procedure	HCPCS	Any	0.802	Inj Methylprdnisln Sodim To 125 Mg
DP02	05HY33Z	Procedure	ICD-10-PCS	Any	0.787	Insrt Infus Devc Up Vn Perq Appr
DP02	0DB98ZX	Procedure	ICD-10-PCS	Any	0.787	Ex Duodenum Nat/Art Opening Endo Dx
DP02	J1644	Procedure	HCPCS	Frequent	0.776	Inj Heparin Sodium Per 1000 Units
DP02	C447	Dispensing	Drug Class	Often	0.774	Cystic Fib-Transmemb Conduct. Reg.(Cftr) Potentiator And Corrector Cmb
DP02	N18	Diagnosis	ICD-10-CM	Frequent	0.771	Chronic Kidney Disease
DP02	C158	Dispensing	Drug Class	Frequent	0.770	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP02	G0157	Procedure	HCPCS	Often	0.766	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	82962	Procedure	CPT	Frequent	0.761	Glucose Blood Test
DP02	I12	Diagnosis	ICD-10-CM	Frequent	0.751	Hypertensive Chronic Kidney Disease
DP02	C447	Dispensing	Drug Class	Any	0.748	Cystic Fib-Transmemb Conduct. Reg.(Cftr) Potentiator And Corrector Cmb
DP02	85610	Procedure	CPT	Frequent	0.746	Prothrombin Time
DP02	99223	Procedure	CPT	Frequent	0.746	Initial Hospital Care
DP02	C122	Dispensing	Drug Class	Frequent	0.746	Anticoagulants - Indanedione
DP02	C44	Dispensing	Drug Class	Often	0.743	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	96365	Procedure	CPT	Frequent	0.741	Ther/Proph/Diag Iv Inf Init
DP02	96365	Procedure	CPT	Any	0.738	Ther/Proph/Diag Iv Inf Init
DP02	83970	Procedure	CPT	Any	0.730	Assay Of Parathormone
DP02	N18	Diagnosis	ICD-10-CM	Often	0.723	Chronic Kidney Disease
DP02	V2100	Procedure	HCPCS	Any	0.723	Spher 1 Visn Plano +/- 4.00-Lens
DP02	4A023N8	Procedure	ICD-10-PCS	Any	0.714	Measur Cardiac Sampl Press Bilat Pc
DP02	D50	Diagnosis	ICD-10-CM	Frequent	0.710	Iron Deficiency Anemia
DP02	99223	Procedure	CPT	Any	0.709	Initial Hospital Care
DP02	A0425	Procedure	HCPCS	Any	0.708	Ground Mileage Per Statute Mile
DP02	G0151	Procedure	HCPCS	Any	0.706	Srvc Pt Hom Hlth/Hospice Ea 15 Min

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	3E033VJ	Procedure	ICD-10-PCS	Any	0.692	Intro Oth Hormone Periph Vn Perq
DP02	C45	Dispensing	Drug Class	Often	0.690	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP02	J44	Diagnosis	ICD-10-CM	Frequent	0.690	Other Copd
DP02	0DB64Z3	Procedure	ICD-10-PCS	Any	0.689	Excision Stomach Perq Endo Vertical
DP02	Z91	Diagnosis	ICD-10-CM	Frequent	0.686	Personal Risk Factors Nec
DP02	C193	Dispensing	Drug Class	Frequent	0.684	Antiemetic - Dopamine (D2) Antagonists And Combinations
DP02	C376	Dispensing	Drug Class	Often	0.677	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant - Amphetamines And Combinations / Narcolepsy Therapy Agents - Stimulant
DP02	E11	Diagnosis	ICD-10-CM	Frequent	0.676	Type 2 Diabetes Mellitus
DP02	J3475	Procedure	HCPCS	Any	0.675	Inj Magnesium Sulfate Per 500 Mg
DP03	999	Diagnosis	ICD-9-CM	Often	2.903	Complications Of Medical Care Nec
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Frequent	2.392	Excision Of Lumbosacral Disc Open
DP03	999	Diagnosis	ICD-9-CM	Any	2.210	Complications Of Medical Care Nec
DP03	00NY0ZZ	Procedure	ICD-10-PCS	Frequent	1.987	Release Lumbar Spinal Cord Open
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Any	1.630	Excision Of Lumbosacral Disc Open
DP03	00NY0ZZ	Procedure	ICD-10-PCS	Any	1.622	Release Lumbar Spinal Cord Open
DP03	5A09357	Procedure	ICD-10-PCS	Any	1.516	Asst W/Resp Vent < 24 Con Hour Cpap
DP03	HZ2ZZZZ	Procedure	ICD-10-PCS	Any	1.414	Dtx Services For Substance Abuse Tx
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	1.399	Fusion Ls Jnt If Post Appr Ac Open
DP03	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.345	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP03	8E0Y0CZ	Procedure	ICD-10-PCS	Any	1.245	Robotic Asstd Proc Lower Ext Opn
DP03	3E04305	Procedure	ICD-10-PCS	Any	1.174	Intro Oth Antineo Cntrl Vn Pc Appr
DP03	0SG3071	Procedure	ICD-10-PCS	Any	1.111	Fusion Ls Joint Auto Sub Post Pc Op
DP03	0SB20ZZ	Procedure	ICD-10-PCS	Any	1.067	Excision Lumbar Vertebral Disc Open
DP03	0UB70ZZ	Procedure	ICD-10-PCS	Any	1.048	Excision Bilat Fallopian Tubes Op
DP03	0DB68ZX	Procedure	ICD-10-PCS	Often	1.029	Exc Stomach Nat/Art Opening Endo Dx
DP03	0BQT4ZZ	Procedure	ICD-10-PCS	Any	1.009	Repair Diaphragm Percutaneous Endo
DP03	G8419	Procedure	HCPCS	Frequent	0.992	Bmi Doc Out NI Parm No F/U Doc No R
DP03	3E02340	Procedure	ICD-10-PCS	Any	0.989	Intro Influenza Vaccne Muscle Perq
DP03	E1390	Procedure	HCPCS	Often	0.985	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP03	0BH17EZ	Procedure	ICD-10-PCS	Often	0.968	Insrt Et Aw Trachea Nat/Art Opening
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Frequent	0.957	Exc Sigmoid Colon Perq Endo Appr

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	0T778DZ	Procedure	ICD-10-PCS	Any	0.947	Dil Lt Ureter II Nat/Art Opng Endo
DP03	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.929	Repair Perineum Muscle Open
DP03	B211YZZ	Procedure	ICD-10-PCS	Any	0.911	Fluoro Multiple Cor Art Oth Cont
DP03	G9899	Procedure	HCPCS	Frequent	0.890	Scr Dx F Dgtl/Dbt Mammo Rslt D&Rev
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.866	Exc Sigmoid Colon Perq Endo Appr
DP03	03HY32Z	Procedure	ICD-10-PCS	Any	0.834	Insert Monit Devc Upper Artery Perq
DP03	A7033	Procedure	HCPCS	Frequent	0.829	Pillw Nasl Cannula Type Intf Repl
DP03	10907ZC	Procedure	ICD-10-PCS	Any	0.815	Drain Amnio Fluid Tx Poc Nat/Art Op
DP03	4A11X4G	Procedure	ICD-10-PCS	Any	0.798	Monitor Perip Nerv Elec Intraop Ext
DP03	009U3ZX	Procedure	ICD-10-PCS	Often	0.786	Drainage Spinal Canal Perq Appr Dx
DP03	02100Z9	Procedure	ICD-10-PCS	Any	0.786	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP03	G8754	Procedure	HCPCS	Frequent	0.771	Most Recent Diastolic Bp < 90Mm Hg
DP03	0DB98ZX	Procedure	ICD-10-PCS	Any	0.760	Ex Duodenum Nat/Art Opening Endo Dx
DP03	0T778DZ	Procedure	ICD-10-PCS	Often	0.760	Dil Lt Ureter II Nat/Art Opng Endo
DP03	G8752	Procedure	HCPCS	Frequent	0.757	Most Recent Systolic Bp < 140Mm Hg
DP03	G8732	Procedure	HCPCS	Any	0.737	No Doc Pain Asmt Reason Not Given
DP03	U0002	Procedure	HCPCS	Any	0.737	2019-Ncov Covid-19 Sars-Cov-2/2019
DP03	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.713	Intro Hormone Fe Repr Nat/Art Open
DP03	30233R1	Procedure	ICD-10-PCS	Any	0.708	Tran Nonauto Platelets Periph Vn Pc
DP03	0SRC0J9	Procedure	ICD-10-PCS	Any	0.706	Repl R Knee Joint Synth Cmentd Open
DP03	E0603	Procedure	HCPCS	Any	0.701	Breast Pump Electric Any Type
DP03	J0702	Procedure	HCPCS	Any	0.695	Inj Betamethasone Ac & Phos 3 Mg
DP03	10E0XZZ	Procedure	ICD-10-PCS	Any	0.683	Delivery Products Of Conception Ext
DP03	0DB68ZX	Procedure	ICD-10-PCS	Any	0.680	Exc Stomach Nat/Art Opening Endo Dx
DP03	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.638	Dilate Cervix Via Natural/Art Opg
DP03	87426	Procedure	CPT	Any	0.627	Sarscov Coronavirus Ag Ia
DP03	J1100	Procedure	HCPCS	Any	0.624	Inj Dexmethoson Sodim Phoshate 1 Mg
DP03	0BH17EZ	Procedure	ICD-10-PCS	Any	0.623	Insrt Et Aw Trachea Nat/Art Opening
DP03	G8541	Procedure	HCPCS	Any	0.622	Func Outcome Assess Not Doc No Rsn
DP03	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.615	Monitor Prod Concept Cardi Rate Ext
DP03	10D07Z6	Procedure	ICD-10-PCS	Any	0.608	Extraction Poc Vacuum Nat/Art Opg
DP03	0WQF0ZZ	Procedure	ICD-10-PCS	Frequent	0.601	Repair Abdominal Wall Open

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	GZHZZZ	Procedure	ICD-10-PCS	Any	0.601	Group Psychotherapy
DP03	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.601	Utilization Of All ICD-9-Cm Diagnosis Codes
DP03	009U3ZX	Procedure	ICD-10-PCS	Any	0.593	Drainage Spinal Canal Perq Appr Dx
DP03	07DR3ZX	Procedure	ICD-10-PCS	Any	0.593	Extrct Iliac Bone Marrow Perq Dx
DP03	B2151ZZ	Procedure	ICD-10-PCS	Any	0.593	Fluoro Lt Heart Low Osmolar Contrst
DP03	B2151ZZ	Procedure	ICD-10-PCS	Often	0.593	Fluoro Lt Heart Low Osmolar Contrst
DP03	G0447	Procedure	HCPCS	Any	0.586	Fce-Fce Behavrl Cnsl Obesity 15 Min
DP03	3E0R3BZ	Procedure	ICD-10-PCS	Any	0.563	Intro Anest Agent Spinal Canal Perq
DP03	4A10X4Z	Procedure	ICD-10-PCS	Any	0.563	Monitor Central Nerv Elect Act Ext
DP03	5A2204Z	Procedure	ICD-10-PCS	Any	0.563	Restoration Cardiac Rhythm Single
DP03	Z03	Diagnosis	ICD-10-CM	Any	0.556	Enc Med Obs Susp Dz Cond Ruled Out
DP03	U07	Diagnosis	ICD-10-CM	Any	0.555	Emergency Use Of U07
DP03	0W9930Z	Procedure	ICD-10-PCS	Often	0.552	Drainage Rt Pleural Cav Drn Devc Pc
DP03	J0696	Procedure	HCPCS	Any	0.549	Inj Ceftriaxone Sodium Per 250 Mg
DP03	U07	Diagnosis	ICD-10-CM	Frequent	0.544	Emergency Use Of U07
DP03	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.531	Resect Lumbar Vertebral Disc Open
DP03	C42	Dispensing	Drug Class	Frequent	0.526	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	U0004	Procedure	HCPCS	Frequent	0.523	2019-Ncov Cronavirus/Covid-19 Any T
DP03	G8484	Procedure	HCPCS	Frequent	0.520	Flu Immun Not Adm Reason Not Given
DP03	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.520	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	J1071	Procedure	HCPCS	Often	0.512	Inj Testosterone Cypionate 1 Mg
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.505	Excision Of Left Saphenous Vein Pe
DP03	0RG20A0	Procedure	ICD-10-PCS	Any	0.505	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP03	G8730	Procedure	HCPCS	Frequent	0.505	Pain Assess Pos Tool F/U Plan Doc
DP03	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.498	Inspection Bladder Nat/Art Opn Endo
DP03	0WQF0ZZ	Procedure	ICD-10-PCS	Any	0.498	Repair Abdominal Wall Open
DP03	U0004	Procedure	HCPCS	Any	0.498	2019-Ncov Cronavirus/Covid-19 Any T
DP03	0UQMXZZ	Procedure	ICD-10-PCS	Any	0.494	Repair Vulva External
DP03	Z03	Diagnosis	ICD-10-CM	Frequent	0.494	Enc Med Obs Susp Dz Cond Ruled Out
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.492	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	G8541	Procedure	HCPCS	Frequent	0.491	Func Outcome Assess Not Doc No Rsn
DP03	3E033VJ	Procedure	ICD-10-PCS	Any	0.486	Intro Oth Hormone Periph Vn Perq

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	J1071	Procedure	HCPCS	Any	0.482	Inj Testosterone Cypionate 1 Mg
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.476	Inspect Upper Intestine Tract Endo
DP03	96372	Procedure	CPT	Any	0.475	Ther/Proph/Diag Inj Sc/Im
DP03	0RB30ZZ	Procedure	ICD-10-PCS	Any	0.475	Excision Cerv Vertebral Disc Open
DP03	C42	Dispensing	Drug Class	Often	0.467	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	0DB78ZX	Procedure	ICD-10-PCS	Any	0.464	Exc Stom Pylorus Nat/Art Op Endo Dx
DP03	0DJD8ZZ	Procedure	ICD-10-PCS	Often	0.464	Inspection Lw Intestinal Tract Endo
DP03	0T768DZ	Procedure	ICD-10-PCS	Often	0.464	Dilat Rt Ureter II Nat/Art Op Endo
DP03	3E03317	Procedure	ICD-10-PCS	Any	0.464	Intro Oth Thrmboylt Periph Vn Perq
DP03	3E033XZ	Procedure	ICD-10-PCS	Any	0.464	Intro Vasopressor Periph Vn Perq
DP03	3E0P7GC	Procedure	ICD-10-PCS	Any	0.461	Intro Oth Tx Sbstnc Fe Reprod
DP03	5A1935Z	Procedure	ICD-10-PCS	Often	0.461	Respiratory Vent < 24 Cons Hours
DP03	A0428	Procedure	HCPCS	Any	0.457	Amb Service Bls Nonemerg Transport
DP03	C383	Dispensing	Drug Class	Frequent	0.449	Beta Blockers Cardiac Selective, All
DP04	E1143	Diagnosis	ICD-9-CM	Frequent	3.971	No Description Available
DP04	E1143	Diagnosis	ICD-9-CM	Often	3.501	No Description Available
DP04	E7801	Diagnosis	ICD-9-CM	Any	3.016	No Description Available
DP04	E1143	Diagnosis	ICD-9-CM	Any	2.873	No Description Available
DP04	E1151	Diagnosis	ICD-9-CM	Any	2.690	No Description Available
DP04	E8770	Diagnosis	ICD-9-CM	Any	2.585	No Description Available
DP04	E161	Diagnosis	ICD-9-CM	Any	2.536	No Description Available
DP04	85025	Procedure	HCPCS	Any	2.393	Complete Cbc W/Auto Diff Wbc
DP04	E1122	Diagnosis	ICD-9-CM	Frequent	2.323	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Any	2.249	No Description Available
DP04	80053	Procedure	HCPCS	Any	2.245	Comprehen Metabolic Panel
DP04	S9088	Procedure	HCPCS	Frequent	2.221	Services Prov An Urgent Care Center
DP04	E282	Diagnosis	ICD-9-CM	Frequent	2.115	No Description Available
DP04	99214	Procedure	HCPCS	Any	2.054	Office O/P Est Mod 30-39 Min
DP04	E8881	Diagnosis	ICD-9-CM	Frequent	1.970	Fall Result Striking Agnst Oth Obj
DP04	E890	Diagnosis	ICD-9-CM	Often	1.970	Conflagration In Private Dwelling
DP04	E042	Diagnosis	ICD-9-CM	Often	1.943	No Description Available
DP04	99213	Procedure	HCPCS	Frequent	1.897	Office O/P Est Low 20-29 Min



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	E0590	Diagnosis	ICD-9-CM	Frequent	1.892	No Description Available
DP04	H0004	Procedure	HCPCS	Frequent	1.656	Behavioral Health Cnsl&Tx-15 Min
DP04	E162	Diagnosis	ICD-9-CM	Any	1.629	No Description Available
DP04	S0215	Procedure	HCPCS	Frequent	1.613	Non-Emerg Transportation; Per Mile
DP04	E041	Diagnosis	ICD-9-CM	Often	1.610	No Description Available
DP04	E1140	Diagnosis	ICD-9-CM	Frequent	1.610	No Description Available
DP04	S0215	Procedure	HCPCS	Any	1.535	Non-Emerg Transportation; Per Mile
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.498	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	99213	Procedure	HCPCS	Often	1.492	Office O/P Est Low 20-29 Min
DP04	H0032	Procedure	HCPCS	Frequent	1.472	Mentl Hlth Srvc Plan Dvlp Non-Phys
DP04	99213	Procedure	HCPCS	Any	1.470	Office O/P Est Low 20-29 Min
DP04	87880	Procedure	HCPCS	Any	1.446	Strep A Assay W/Optic
DP04	S0215	Procedure	HCPCS	Often	1.442	Non-Emerg Transportation; Per Mile
DP04	3E033XZ	Procedure	ICD-10-PCS	Any	1.376	Intro Vasopressor Periph Vn Perq
DP04	E1065	Diagnosis	ICD-9-CM	Frequent	1.361	No Description Available
DP04	10D17Z9	Procedure	ICD-10-PCS	Any	1.332	Man Ext Prod Conception Ret Nat/A O
DP04	C840	Dispensing	Drug Class	Frequent	1.320	Minerals And Electrolytes - Tungsten
DP04	E890	Diagnosis	ICD-9-CM	Any	1.304	Conflagration In Private Dwelling
DP04	J11	Diagnosis	ICD-10-CM	Frequent	1.299	Influenza Due To Unidentified Influ
DP04	E042	Diagnosis	ICD-9-CM	Any	1.277	No Description Available
DP04	D0999	Procedure	HCPCS	Frequent	1.272	Unspec Diagnostic Procedure Report
DP04	E781	Diagnosis	ICD-9-CM	Any	1.263	No Description Available
DP04	E0601	Procedure	HCPCS	Frequent	1.262	Continuous Pos Airway Pressure Devc
DP04	J10	Diagnosis	ICD-10-CM	Frequent	1.172	Flu D/T Oth Id Influenza Virus
DP04	E1390	Procedure	HCPCS	Often	1.143	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP04	E0590	Diagnosis	ICD-9-CM	Any	1.138	No Description Available
DP04	G0008	Procedure	HCPCS	Any	1.115	Administration Influenza Virus Vacc
DP04	J7050	Procedure	HCPCS	Frequent	1.103	Infus Normal Saline Solution 250 Cc
DP04	E041	Diagnosis	ICD-9-CM	Any	1.048	No Description Available
DP04	E1165	Diagnosis	ICD-9-CM	Frequent	1.048	No Description Available
DP04	C1099	Dispensing	Drug Class	Frequent	1.029	Tetracycline Antibiotics And Combinations
DP04	C151	Dispensing	Drug Class	Frequent	1.029	Anticonvulsant - Sulfonamide Derivatives



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	H0004	Procedure	HCPCS	Any	1.023	Behavioral Health Cnsl&Tx-15 Min
DP04	T1016	Procedure	HCPCS	Frequent	1.009	Case Management Each 15 Mins
DP04	02HV33Z	Procedure	ICD-10-PCS	Any	1.003	Insrt Infus Devc Sup Vena Cava Perq
DP04	E559	Diagnosis	ICD-9-CM	Frequent	0.986	No Description Available
DP04	E1390	Procedure	HCPCS	Any	0.983	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP04	J44	Diagnosis	ICD-10-CM	Frequent	0.931	Other Copd
DP04	99051	Procedure	CPT	Any	0.928	Med Serv Eve/Wkend/Holiday
DP04	C1094	Dispensing	Drug Class	Frequent	0.918	Smoking Deterrents, Systemic
DP04	00HU33Z	Procedure	ICD-10-PCS	Any	0.899	Insert Infus Devc Spinal Canal Perq
DP04	82947	Procedure	CPT	Any	0.895	Assay Glucose Blood Quant
DP04	S9088	Procedure	HCPCS	Any	0.888	Services Prov An Urgent Care Center
DP04	C1116	Dispensing	Drug Class	Often	0.878	Urinary Tract Protective Agents Used In Conjunction With Chemotherapy
DP04	G0480	Procedure	HCPCS	Frequent	0.871	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP04	3E0234Z	Procedure	ICD-10-PCS	Any	0.867	Intro Serum Toxoid Vac Msc Perq
DP04	H0004	Procedure	HCPCS	Often	0.852	Behavioral Health Cnsl&Tx-15 Min
DP04	A0100	Procedure	HCPCS	Often	0.843	Nonemergency Transportation; Taxi
DP04	C42	Dispensing	Drug Class	Frequent	0.840	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP04	B37	Diagnosis	ICD-10-CM	Frequent	0.835	Candidiasis
DP04	C850	Dispensing	Drug Class	Frequent	0.827	Mouth And Throat - Anti-Infective-Local Anesthetic Combinations / Mouth And Throat - Local Anesthetic Esters
DP04	E1142	Diagnosis	ICD-9-CM	Any	0.827	No Description Available
DP04	D0999	Procedure	HCPCS	Any	0.804	Unspec Diagnostic Procedure Report
DP04	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.802	Repair Diaphragm Percutaneous Endo
DP04	C811	Dispensing	Drug Class	Frequent	0.796	Migraine Therapy Combinations
DP04	C792	Dispensing	Drug Class	Frequent	0.795	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP04	E282	Diagnosis	ICD-9-CM	Any	0.785	No Description Available
DP04	E8881	Diagnosis	ICD-9-CM	Any	0.785	Fall Result Striking Agnst Oth Obj
DP04	S9083	Procedure	HCPCS	Frequent	0.778	Global Fee Urgent Care Centers
DP04	H2017	Procedure	HCPCS	Frequent	0.771	Psychosocial Rehab Srvc 15 Minutes
DP04	J44	Diagnosis	ICD-10-CM	Often	0.770	Other Copd
DP04	4A10X4Z	Procedure	ICD-10-PCS	Any	0.769	Monitor Central Nerv Elect Act Ext
DP04	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.760	Intro Anes Agt Periph Nrv&Plexi Pc

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	C1116	Dispensing	Drug Class	Frequent	0.755	Urinary Tract Protective Agents Used In Conjunction With Chemotherapy
DP04	C840	Dispensing	Drug Class	Often	0.748	Minerals And Electrolytes - Tungsten
DP04	T1017	Procedure	HCPCS	Often	0.719	Targeted Case Management Ea 15 Mins
DP04	C1033	Dispensing	Drug Class	Frequent	0.718	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP04	A0100	Procedure	HCPCS	Frequent	0.717	Nonemergency Transportation; Taxi
DP04	T1017	Procedure	HCPCS	Frequent	0.716	Targeted Case Management Ea 15 Mins
DP04	84484	Procedure	CPT	Frequent	0.714	Assay Of Troponin Quant
DP04	C1149	Dispensing	Drug Class	Often	0.704	Anesthetics
DP04	C381	Dispensing	Drug Class	Any	0.704	B-Complex Vitamins And Combinations / Vitamins - Water Soluble
DP04	009U3ZX	Procedure	ICD-10-PCS	Any	0.687	Drainage Spinal Canal Perq Appr Dx
DP04	E1065	Diagnosis	ICD-9-CM	Often	0.683	No Description Available
DP04	C850	Dispensing	Drug Class	Often	0.682	Mouth And Throat - Anti-Infective-Local Anesthetic Combinations / Mouth And Throat - Local Anesthetic Esters
DP04	87804	Procedure	CPT	Any	0.678	Influenza Assay W/Optic
DP04	E1165	Diagnosis	ICD-9-CM	Any	0.668	No Description Available
DP04	A0100	Procedure	HCPCS	Any	0.666	Nonemergency Transportation; Taxi
DP04	G8510	Procedure	HCPCS	Any	0.662	Scr Depr Doc Neg A F/U Plan Not Rqr
DP04	E1140	Diagnosis	ICD-9-CM	Any	0.661	No Description Available
DP04	C151	Dispensing	Drug Class	Often	0.660	Anticonvulsant - Sulfonamide Derivatives
DP04	C1006	Dispensing	Drug Class	Frequent	0.659	Peripheral Vasodilators
DP05	G8754	Procedure	HCPCS	Frequent	2.228	Most Recent Diastolic Bp < 90Mm Hg
DP05	G8752	Procedure	HCPCS	Frequent	2.059	Most Recent Systolic Bp < 140Mm Hg
DP05	C9803	Procedure	HCPCS	Any	1.948	Placeholder Only - Code Has Not Bee
DP05	A9270	Procedure	HCPCS	Frequent	1.921	Noncovered Item Or Service
DP05	J44	Diagnosis	ICD-10-CM	Frequent	1.878	Other Copd
DP05	J1644	Procedure	HCPCS	Frequent	1.804	Inj Heparin Sodium Per 1000 Units
DP05	G0463	Procedure	HCPCS	Frequent	1.790	Hos Op Clin Visit Assess & Mgmt Pt
DP05	G0439	Procedure	HCPCS	Any	1.740	Annual Wellness Vst; Pps Subsqst Vst
DP05	B2111ZZ	Procedure	ICD-10-PCS	Any	1.663	Fluoro Mx Cor Art Low Osmolar Cont
DP05	0D9670Z	Procedure	ICD-10-PCS	Any	1.639	Drain Stomach Drain Devc Nat/Art Op
DP05	C1115	Dispensing	Drug Class	Any	1.588	Urinary Retention Therapy - Parasympathomimetic Agents
DP05	A9270	Procedure	HCPCS	Any	1.516	Noncovered Item Or Service

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	G2023	Procedure	HCPCS	Frequent	1.494	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	U0005	Procedure	HCPCS	Frequent	1.474	Ia Det Na; Sars-Cov-2 Covid-19
DP05	G0009	Procedure	HCPCS	Any	1.450	Administration Pneumococcal Vacc
DP05	J44	Diagnosis	ICD-10-CM	Often	1.436	Other Copd
DP05	4A1HXCZ	Procedure	ICD-10-PCS	Any	1.362	Monitor Prod Concept Cardi Rate Ext
DP05	G2023	Procedure	HCPCS	Any	1.317	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	G8432	Procedure	HCPCS	Frequent	1.317	Depression Scr Not Doc Rsn Not Gvn
DP05	J44	Diagnosis	ICD-10-CM	Any	1.308	Other Copd
DP05	C95	Dispensing	Drug Class	Often	1.307	Antianginal And Anti-Ischemic Agents
DP05	C338	Dispensing	Drug Class	Frequent	1.215	Antithyroid Agents
DP05	C679	Dispensing	Drug Class	Often	1.200	Factor Ix Preparations
DP05	U07	Diagnosis	ICD-10-CM	Any	1.197	Emergency Use Of U07
DP05	N18	Diagnosis	ICD-10-CM	Frequent	1.155	Chronic Kidney Disease
DP05	C95	Dispensing	Drug Class	Any	1.153	Antianginal And Anti-Ischemic Agents
DP05	0KQM0ZZ	Procedure	ICD-10-PCS	Any	1.110	Repair Perineum Muscle Open
DP05	93010	Procedure	CPT	Frequent	1.109	Electrocardiogram Report
DP05	J7050	Procedure	HCPCS	Frequent	1.107	Infus Normal Saline Solution 250 Cc
DP05	U0003	Procedure	HCPCS	Frequent	1.106	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	1.091	Delivery Products Of Conception Ext
DP05	G0463	Procedure	HCPCS	Any	1.081	Hos Op Clin Visit Assess & Mgmt Pt
DP05	71045	Procedure	CPT	Frequent	1.068	X-Ray Exam Chest 1 View
DP05	C679	Dispensing	Drug Class	Any	1.064	Factor Ix Preparations
DP05	85610	Procedure	CPT	Frequent	1.048	Prothrombin Time
DP05	C95	Dispensing	Drug Class	Frequent	1.033	Antianginal And Anti-Ischemic Agents
DP05	3078F	Procedure	CPT	Frequent	1.028	Diast Bp <80 Mm Hg
DP05	C1158	Dispensing	Drug Class	Frequent	1.027	Biologicals
DP05	U0005	Procedure	HCPCS	Any	1.017	Ia Det Na; Sars-Cov-2 Covid-19
DP05	E1390	Procedure	HCPCS	Any	1.012	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP05	N18	Diagnosis	ICD-10-CM	Any	0.995	Chronic Kidney Disease
DP05	B2151ZZ	Procedure	ICD-10-PCS	Any	0.993	Fluoro Lt Heart Low Osmolar Contrst
DP05	G8482	Procedure	HCPCS	Frequent	0.993	Influenza Immun Admin/Prev Recv
DP05	I25	Diagnosis	ICD-10-CM	Often	0.993	Chronic Ischemic Heart Disease

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C338	Dispensing	Drug Class	Often	0.987	Antithyroid Agents
DP05	N18	Diagnosis	ICD-10-CM	Often	0.978	Chronic Kidney Disease
DP05	H25	Diagnosis	ICD-10-CM	Any	0.967	Age-Related Cataract
DP05	R69	Diagnosis	ICD-10-CM	Frequent	0.967	Illness Unspecified
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.966	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP05	I25	Diagnosis	ICD-10-CM	Frequent	0.965	Chronic Ischemic Heart Disease
DP05	C858	Dispensing	Drug Class	Any	0.953	Mouth And Throat - Local Anesthetic Mixtures
DP05	3074F	Procedure	CPT	Frequent	0.948	Syst Bp Lt 130 Mm Hg
DP05	U0003	Procedure	HCPCS	Any	0.946	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	C858	Dispensing	Drug Class	Frequent	0.945	Mouth And Throat - Local Anesthetic Mixtures
DP05	C703	Dispensing	Drug Class	Any	0.941	Gastric Acidifiers
DP05	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.938	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	10D00Z1	Procedure	ICD-10-PCS	Any	0.919	Extraction Poc Low Open
DP05	R69	Diagnosis	ICD-10-CM	Any	0.916	Illness Unspecified
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.913	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	C1004	Dispensing	Drug Class	Often	0.906	Periodontal Product - Anti-Infectives
DP05	C1004	Dispensing	Drug Class	Frequent	0.901	Periodontal Product - Anti-Infectives
DP05	Z96	Diagnosis	ICD-10-CM	Any	0.890	Presence Other Functional Implants
DP05	E1390	Procedure	HCPCS	Often	0.888	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP05	C405	Dispensing	Drug Class	Often	0.878	Cardiac Inotropes - Phosphodiesterase Inhibitors
DP05	Z96	Diagnosis	ICD-10-CM	Frequent	0.871	Presence Other Functional Implants
DP05	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.863	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP05	I25	Diagnosis	ICD-10-CM	Any	0.858	Chronic Ischemic Heart Disease
DP05	G8420	Procedure	HCPCS	Frequent	0.853	Bmi Doc Nml Param & No F/U Plan Rqr
DP05	3008F	Procedure	CPT	Frequent	0.849	Body Mass Index Docd
DP05	C703	Dispensing	Drug Class	Often	0.838	Gastric Acidifiers
DP05	C104	Dispensing	Drug Class	Frequent	0.835	Antiarrhythmic - Class I
DP05	C858	Dispensing	Drug Class	Often	0.827	Mouth And Throat - Local Anesthetic Mixtures
DP05	C679	Dispensing	Drug Class	Frequent	0.826	Factor Ix Preparations
DP05	B35	Diagnosis	ICD-10-CM	Frequent	0.823	Dermatophytosis
DP05	G8754	Procedure	HCPCS	Any	0.818	Most Recent Diastolic Bp < 90Mm Hg
DP05	1160F	Procedure	CPT	Frequent	0.816	Rvw Meds By Rx/Dr In Rcrd

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	G0378	Procedure	HCPCS	Any	0.811	Hospital Observatn Service Per Hour
DP05	Z20	Diagnosis	ICD-10-CM	Frequent	0.799	Contact With Expos Communicable Dz
DP05	C42	Dispensing	Drug Class	Often	0.797	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C42	Dispensing	Drug Class	Any	0.794	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C921	Dispensing	Drug Class	Frequent	0.793	Nutritional Product - Medical Condition Specific Formulation / Nutritional Product - Parenteral And Other Amino Acids / Sickle Cell Anemia Agents, Oth
DP05	C1004	Dispensing	Drug Class	Any	0.792	Periodontal Product - Anti-Infectives
DP05	C405	Dispensing	Drug Class	Any	0.790	Cardiac Inotropes - Phosphodiesterase Inhibitors
DP05	H25	Diagnosis	ICD-10-CM	Frequent	0.790	Age-Related Cataract
DP05	027034Z	Procedure	ICD-10-PCS	Any	0.783	Dil Ca 1 Art Rx-Elut II Devc Perq
DP05	1160F	Procedure	CPT	Any	0.777	Rvw Meds By Rx/Dr In Rcrd
DP05	Z86	Diagnosis	ICD-10-CM	Frequent	0.777	Personal History Certain Other Dz
DP05	R42	Diagnosis	ICD-10-CM	Frequent	0.771	Dizziness And Giddiness
DP05	M17	Diagnosis	ICD-10-CM	Often	0.769	Osteoarthritis Of Knee
DP05	87426	Procedure	CPT	Any	0.765	Sarscov Coronavirus Ag Ia
DP05	D64	Diagnosis	ICD-10-CM	Frequent	0.765	Other Anemias
DP05	1159F	Procedure	CPT	Frequent	0.756	Med List Docd In Rcrd
DP05	G9903	Procedure	HCPCS	Frequent	0.754	Pt Scr Tob Use & Id As Tob Non-User
DP05	C446	Dispensing	Drug Class	Frequent	0.745	Cyclic Lipopeptide Antibiotics
DP05	M17	Diagnosis	ICD-10-CM	Any	0.742	Osteoarthritis Of Knee
DP05	1159F	Procedure	CPT	Any	0.730	Med List Docd In Rcrd
DP05	J7050	Procedure	HCPCS	Any	0.722	Infus Normal Saline Solution 250 Cc
DP05	C1081	Dispensing	Drug Class	Often	0.720	Rifamycins And Related Derivative Antibiotics
DP05	C380	Dispensing	Drug Class	Frequent	0.719	B-Complex Vitamins And Combinations / Minerals And Electrolytes - Iron And Combinations
DP05	Z20	Diagnosis	ICD-10-CM	Any	0.717	Contact With Expos Communicable Dz
DP06	G8988	Procedure	HCPCS	Frequent	3.321	Self Care Fcn Limitatn Goal At D/C
DP06	G8987	Procedure	HCPCS	Frequent	2.735	Slf Care Fcn Lim Cur Rep Intervls
DP06	G0471	Procedure	HCPCS	Frequent	2.558	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	P9603	Procedure	HCPCS	Frequent	2.454	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	P9604	Procedure	HCPCS	Frequent	2.420	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G8988	Procedure	HCPCS	Often	2.377	Self Care Fcn Limitatn Goal At D/C

**Appendix B. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score (hdPS) Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	G8989	Procedure	HCPCS	Any	2.324	Self Care Func Lim D/C Status D/C
DP06	G8987	Procedure	HCPCS	Often	2.236	Slf Care Fcn Lim Cur Rep Intervls
DP06	P9604	Procedure	HCPCS	Often	2.214	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G0471	Procedure	HCPCS	Often	2.211	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	P9603	Procedure	HCPCS	Often	2.170	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	C808	Dispensing	Drug Class	Frequent	2.140	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine Therapy Other / Nsaid Analgesics
DP06	P9604	Procedure	HCPCS	Any	2.129	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G0471	Procedure	HCPCS	Any	2.075	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	G8982	Procedure	HCPCS	Frequent	2.027	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	P9603	Procedure	HCPCS	Any	1.971	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	G8987	Procedure	HCPCS	Any	1.788	Slf Care Fcn Lim Cur Rep Intervls
DP06	A0428	Procedure	HCPCS	Frequent	1.764	Amb Service Bls Nonemerg Transport
DP06	99309	Procedure	CPT	Frequent	1.762	Nursing Fac Care Subseq
DP06	99309	Procedure	CPT	Any	1.746	Nursing Fac Care Subseq
DP06	G8988	Procedure	HCPCS	Any	1.744	Self Care Fcn Limitatn Goal At D/C
DP06	G8982	Procedure	HCPCS	Often	1.735	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	99309	Procedure	CPT	Often	1.728	Nursing Fac Care Subseq
DP06	G8981	Procedure	HCPCS	Often	1.698	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	99308	Procedure	CPT	Frequent	1.696	Nursing Fac Care Subseq
DP06	R0075	Procedure	HCPCS	Any	1.686	Trans Prtbl Xray Eqp&Pers-Trip>1 Pt
DP06	99308	Procedure	CPT	Any	1.673	Nursing Fac Care Subseq
DP06	C808	Dispensing	Drug Class	Often	1.655	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine Therapy Other / Nsaid Analgesics
DP06	G8980	Procedure	HCPCS	Any	1.653	Mob:Wlk&Mov Arnd Fcn Lim D/C At D/C
DP06	Q0092	Procedure	HCPCS	Frequent	1.649	Set-Up Portable X-Ray Equipment
DP06	99308	Procedure	CPT	Often	1.643	Nursing Fac Care Subseq
DP06	C808	Dispensing	Drug Class	Any	1.586	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine Therapy Other / Nsaid Analgesics
DP06	A0428	Procedure	HCPCS	Any	1.577	Amb Service Bls Nonemerg Transport
DP06	C133	Dispensing	Drug Class	Often	1.576	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	4A11X4G	Procedure	ICD-10-PCS	Any	1.568	Monitor Perip Nerv Elec Intraop Ext

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	99307	Procedure	CPT	Any	1.562	Nursing Fac Care Subseq
DP06	Q0092	Procedure	HCPCS	Any	1.562	Set-Up Portable X-Ray Equipment
DP06	R0070	Procedure	HCPCS	Frequent	1.538	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP06	G8979	Procedure	HCPCS	Frequent	1.535	Mob: Walk Mov Around Fcn Lim Goal
DP06	R13	Diagnosis	ICD-10-CM	Frequent	1.534	Aphagia And Dysphagia
DP06	3E0G76Z	Procedure	ICD-10-PCS	Any	1.523	Intro Nut Sbstnc Ugi Via Nat/Art Op
DP06	R0070	Procedure	HCPCS	Any	1.522	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP06	C133	Dispensing	Drug Class	Frequent	1.498	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	97535	Procedure	CPT	Frequent	1.494	Self Care Mngment Training
DP06	97535	Procedure	CPT	Often	1.494	Self Care Mngment Training
DP06	C122	Dispensing	Drug Class	Frequent	1.484	Anticoagulants - Indanedione
DP06	G0467	Procedure	HCPCS	Frequent	1.480	Fqhc Visit Established Patient
DP06	G8978	Procedure	HCPCS	Frequent	1.480	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C133	Dispensing	Drug Class	Any	1.416	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	C158	Dispensing	Drug Class	Frequent	1.412	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	97116	Procedure	CPT	Frequent	1.397	Gait Training Therapy
DP06	F03	Diagnosis	ICD-10-CM	Frequent	1.395	Unspecified Dementia
DP06	97116	Procedure	CPT	Often	1.393	Gait Training Therapy
DP06	99307	Procedure	CPT	Often	1.387	Nursing Fac Care Subseq
DP06	C338	Dispensing	Drug Class	Frequent	1.368	Antithyroid Agents
DP06	A0425	Procedure	HCPCS	Frequent	1.365	Ground Mileage Per Statute Mile
DP06	99307	Procedure	CPT	Frequent	1.302	Nursing Fac Care Subseq
DP06	C151	Dispensing	Drug Class	Often	1.282	Anticonvulsant - Sulfonamide Derivatives
DP06	C158	Dispensing	Drug Class	Often	1.282	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	G8979	Procedure	HCPCS	Often	1.269	Mob: Walk Mov Around Fcn Lim Goal
DP06	G8982	Procedure	HCPCS	Any	1.269	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	G8981	Procedure	HCPCS	Any	1.265	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	G8978	Procedure	HCPCS	Often	1.258	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	F03	Diagnosis	ICD-10-CM	Often	1.255	Unspecified Dementia
DP06	C151	Dispensing	Drug Class	Frequent	1.250	Anticonvulsant - Sulfonamide Derivatives
DP06	03HY32Z	Procedure	ICD-10-PCS	Any	1.224	Insert Monit Devc Upper Artery Perq
DP06	G0127	Procedure	HCPCS	Often	1.211	Trim Dystrophic Nails Any Number



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	G0127	Procedure	HCPCS	Any	1.203	Trim Dystrophic Nails Any Number
DP06	OD9670Z	Procedure	ICD-10-PCS	Any	1.165	Drain Stomach Drain Devc Nat/Art Op
DP06	C45	Dispensing	Drug Class	Often	1.163	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	C44	Dispensing	Drug Class	Often	1.115	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	F03	Diagnosis	ICD-10-CM	Any	1.108	Unspecified Dementia
DP06	30233R1	Procedure	ICD-10-PCS	Any	1.102	Tran Nonauto Platelets Periph Vn Pc
DP06	C44	Dispensing	Drug Class	Frequent	1.084	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	C679	Dispensing	Drug Class	Frequent	1.084	Factor Ix Preparations
DP06	4A023N6	Procedure	ICD-10-PCS	Any	1.067	Measur Card Sampl Press Rt Heart Pc
DP06	11720	Procedure	CPT	Often	1.057	Debride Nail 1-5
DP06	11720	Procedure	CPT	Any	1.054	Debride Nail 1-5
DP06	0DB64Z3	Procedure	ICD-10-PCS	Any	1.044	Excision Stomach Perq Endo Vertical
DP06	C338	Dispensing	Drug Class	Often	1.035	Antithyroid Agents
DP06	C985	Dispensing	Drug Class	Frequent	1.028	Overactive Bladder Agents
DP06	R13	Diagnosis	ICD-10-CM	Often	1.004	Aphagia And Dysphagia
DP06	C1169	Dispensing	Drug Class	Frequent	1.003	Autonomic Drugs
DP06	A0429	Procedure	HCPCS	Any	1.000	Amb Service Bls Emergency Transport
DP06	G8978	Procedure	HCPCS	Any	0.998	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C858	Dispensing	Drug Class	Frequent	0.990	Mouth And Throat - Local Anesthetic Mixtures
DP06	G8979	Procedure	HCPCS	Any	0.986	Mob: Walk Mov Around Fcn Lim Goal
DP06	4A033BC	Procedure	ICD-10-PCS	Any	0.978	Measure Arterial Press Coronary Pc
DP06	11721	Procedure	CPT	Often	0.977	Debride Nail 6 Or More
DP06	R41	Diagnosis	ICD-10-CM	Frequent	0.966	Oth Sx Signs Cog Func Awareness
DP06	C1149	Dispensing	Drug Class	Frequent	0.964	Anesthetics
DP06	C326	Dispensing	Drug Class	Frequent	0.964	Antiparkinson'S Adjuvants
DP06	C326	Dispensing	Drug Class	Often	0.938	Antiparkinson'S Adjuvants
DP06	97116	Procedure	CPT	Any	0.929	Gait Training Therapy
DP06	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.927	Ex Sig Colon Via Nat/Art Op Endo Dx
DP06	0SR904A	Procedure	ICD-10-PCS	Any	0.927	Repl R Hip Jnt Ceram Ply Ucmnt Opn
DP06	G0467	Procedure	HCPCS	Often	0.924	Fqhc Visit Established Patient
DP06	11721	Procedure	CPT	Any	0.918	Debride Nail 6 Or More
DP06	B41F1ZZ	Procedure	ICD-10-PCS	Any	0.891	Fluoro Rt Low Ext Art Low Os Cont



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	B548ZZA	Procedure	ICD-10-PCS	Any	0.883	Ultrasonography Sup Vena Cava Guid

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st ( $\leq 25$ th), 2nd ( $>25$ th but  $\leq 50$ th), 3rd ( $>50$ th but  $\leq 75$ th), and 4th ( $>75$ th).

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	0DB78ZX	Procedure	ICD-10-PCS	Any	1.536	Exc Stom Pylorus Nat/Art Op Endo Dx
DP01	5A1221Z	Procedure	ICD-10-PCS	Any	1.46	Performance Cardiac Output Cont
DP01	0DBB8ZX	Procedure	ICD-10-PCS	Any	1.249	Exc Ileum Via Nat/Art Op Endo Dx
DP01	30233N1	Procedure	ICD-10-PCS	Any	1.249	Tran Nauto Red Bld Cll Periph Vn Pc
DP01	3E0U0GB	Procedure	ICD-10-PCS	Any	1.249	Intro Recomb Bn Mrphgen Prot Jnt Op
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.249	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	027034Z	Procedure	ICD-10-PCS	Any	1.236	Dil Ca 1 Art Rx-Elut Il Devc Perq
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.236	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	0DB68ZX	Procedure	ICD-10-PCS	Any	1.131	Exc Stomach Nat/Art Opening Endo Dx
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.938	Ex Duodenum Nat/Art Opening Endo Dx
DP01	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.843	Ex Sig Colon Via Nat/Art Op Endo Dx
DP01	0F798DZ	Procedure	ICD-10-PCS	Any	0.843	Dil Cmn Bd W Il Dev Nat/Art Op Endo
DP01	0SG00A0	Procedure	ICD-10-PCS	Any	0.843	Fusion Lv Joint If Ant Appr Ac Open
DP01	3E033XZ	Procedure	ICD-10-PCS	Any	0.843	Intro Vasopressor Periph Vn Perq
DP01	5A2204Z	Procedure	ICD-10-PCS	Any	0.843	Restoration Cardiac Rhythm Single
DP01	B211YZZ	Procedure	ICD-10-PCS	Any	0.843	Fluoro Multiple Cor Art Oth Cont
DP01	B215YZZ	Procedure	ICD-10-PCS	Any	0.843	Fluoroscopy Lt Heart Other Contrast
DP01	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.831	Robotic Asstd Proc Trunk Perq Endo
DP01	B2111ZZ	Procedure	ICD-10-PCS	Any	0.726	Fluoro Mx Cor Art Low Osmolar Cont
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	0.661	Drainage Spinal Canal Perq Appr Dx
DP01	H22ZZZZ	Procedure	ICD-10-PCS	Any	0.661	Dtx Services For Substance Abuse Tx
DP01	06BP4ZZ	Procedure	ICD-10-PCS	Any	0.555	Excision Of Right Saphenous Vein Pe
DP01	0RGA071	Procedure	ICD-10-PCS	Any	0.555	Fus Tl Vert Jnt Auto Sub Post Pc Op
DP01	0SG1071	Procedure	ICD-10-PCS	Any	0.555	Fus 2/> Lv Jnt Auto Sub Post Pc Op
DP01	0SG3071	Procedure	ICD-10-PCS	Any	0.555	Fusion Ls Joint Auto Sub Post Pc Op
DP01	B24BZZZ	Procedure	ICD-10-PCS	Any	0.555	Ultrasonography Of Heart With Aorta
DP01	01N10ZZ	Procedure	ICD-10-PCS	Any	0.543	Release Cervical Nerve Open Apprch
DP01	0D9670Z	Procedure	ICD-10-PCS	Any	0.543	Drain Stomach Drain Devc Nat/Art Op
DP01	0DB38ZX	Procedure	ICD-10-PCS	Any	0.543	Ex Low Esoph Via Nat/Art Op Endo Dx
DP01	0SB20ZZ	Procedure	ICD-10-PCS	Any	0.543	Excision Lumbar Vertebral Disc Open
DP01	0SG0071	Procedure	ICD-10-PCS	Any	0.543	Fusion Lv Joint Auto Sub Post Pc Op
DP01	0SG00AJ	Procedure	ICD-10-PCS	Any	0.543	Fusion Lv Joint If Post Appr Ac Opn
DP01	0SG10AJ	Procedure	ICD-10-PCS	Any	0.543	Fus 2/> Lv Jnt If Post Appr Ac Open

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	OSG30A0	Procedure	ICD-10-PCS	Any	0.543	Fusion Ls Joint If Ant Appr Ac Open
DP01	0W9B3ZZ	Procedure	ICD-10-PCS	Any	0.543	Drainage Left Pleural Cavity Perq
DP01	5A1955Z	Procedure	ICD-10-PCS	Any	0.543	Respiratory Ventilation > 96 Con Hr
DP01	BF101ZZ	Procedure	ICD-10-PCS	Any	0.543	Fluoro Bile Ducts L Osmolar Contrst
DP01	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.486	Resect Lumbar Vertebral Disc Open
DP01	C1149	Dispensing	Drug Class	Frequent	0.456	Anesthetics
DP01	10E0XZZ	Procedure	ICD-10-PCS	Any	0.454	Delivery Products Of Conception Ext
DP01	G0145	Procedure	HCPCS	Any	0.449	Scr Cerv/Vag Auto&Mnl Rscr Phys
DP01	7809	Diagnosis	ICD-9-CM	Frequent	0.438	Other General Symptoms
DP01	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.438	Repair Perineum Muscle Open
DP01	3E0234Z	Procedure	ICD-10-PCS	Any	0.438	Intro Serum Toxoid Vac Msc Perq
DP01	5A09357	Procedure	ICD-10-PCS	Any	0.438	Asst W/Resp Vent < 24 Con Hour Cpap
DP01	C829	Dispensing	Drug Class	Frequent	0.43	Minerals And Electrolytes - Manganese And Combinations
DP01	A9502	Procedure	HCPCS	Any	0.422	Tc-99M Tetrofosmin Dx - Study Dose
DP01	C423	Dispensing	Drug Class	Frequent	0.403	Choleretics
DP01	10907ZC	Procedure	ICD-10-PCS	Any	0.386	Drain Amnio Fluid Tx Poc Nat/Art Op
DP01	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.373	Intro Anes Agt Periph Nrv&Plexi Pc
DP01	C917	Dispensing	Drug Class	Frequent	0.373	Nutritional Product - Msud Specific Formulation
DP01	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.361	Release Lumbar Nerve Open Approach
DP01	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.361	Resection Bilat Fallopian Tubes Op
DP01	C221	Dispensing	Drug Class	Frequent	0.357	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP01	A9575	Procedure	HCPCS	Any	0.343	Inj Gadoterate Meglumine 0.1 Ml
DP01	G8417	Procedure	HCPCS	Frequent	0.343	Bmi Doc Abv Nml Param & F/U Pln Doc
DP01	J7298	Procedure	HCPCS	Any	0.34	Lng-Rls Intrauterine Coc Sys 52 Mg
DP01	4A023N7	Procedure	ICD-10-PCS	Any	0.336	Measur Card Sampl Press Lt Heart Pc
DP01	0W8NXZZ	Procedure	ICD-10-PCS	Any	0.332	Division Female Perineum External
DP01	4A11X4G	Procedure	ICD-10-PCS	Any	0.332	Monitor Perip Nerv Elec Intraop Ext
DP01	C132	Dispensing	Drug Class	Frequent	0.32	Anticonvulsant - Functionalized Amino Acid
DP01	Z02	Diagnosis	ICD-10-CM	Frequent	0.318	Encounter For Administrative Exam
DP01	J0585	Procedure	HCPCS	Often	0.315	Botulinum Toxin Type A Per Unit
DP01	Z80	Diagnosis	ICD-10-CM	Frequent	0.312	Fam Hx Primary Malignant Neoplasm
DP01	J1071	Procedure	HCPCS	Frequent	0.31	Inj Testosterone Cypionate 1 Mg
DP01	A7033	Procedure	HCPCS	Frequent	0.309	Pillw Nasl Cannula Type Intf Repl

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G0279	Procedure	HCPCS	Any	0.307	Dx Digtl Brst Tomosynthesis Uni/Bil
DP01	S0281	Procedure	HCPCS	Often	0.307	Med Home Program Care Coord Maint
DP01	Z02	Diagnosis	ICD-10-CM	Any	0.306	Encounter For Administrative Exam
DP01	S0281	Procedure	HCPCS	Any	0.305	Med Home Program Care Coord Maint
DP01	Z02	Diagnosis	ICD-10-CM	Often	0.303	Encounter For Administrative Exam
DP01	C168	Dispensing	Drug Class	Frequent	0.299	Antidepressant Combinations
DP01	J0585	Procedure	HCPCS	Any	0.296	Botulinum Toxin Type A Per Unit
DP01	J1071	Procedure	HCPCS	Often	0.295	Inj Testosterone Cypionate 1 Mg
DP01	D22	Diagnosis	ICD-10-CM	Frequent	0.288	Melanocytic Nevi
DP01	G0444	Procedure	HCPCS	Any	0.287	Annual Depression Screening 15 Min
DP01	XW033E5	Procedure	ICD-10-PCS	Any	0.283	Intr Remdesivir Periph Vn Perc Nt5
DP01	D64	Diagnosis	ICD-10-CM	Frequent	0.279	Other Anemias
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.275	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	C193	Dispensing	Drug Class	Any	0.268	Antiemetic - Dopamine (D2) Antagonists And Combinations
DP01	C168	Dispensing	Drug Class	Often	0.265	Antidepressant Combinations
DP01	G8420	Procedure	HCPCS	Any	0.264	Bmi Doc Nml Param & No F/U Plan Rqr
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.264	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	L81	Diagnosis	ICD-10-CM	Any	0.259	Other Disorders Of Pigmentation
DP01	0DB58ZX	Procedure	ICD-10-PCS	Any	0.256	Exc Esoph Via Nat Art Op Endo Dx
DP01	0DB64Z3	Procedure	ICD-10-PCS	Any	0.256	Excision Stomach Perq Endo Vertical
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.256	Inspect Upper Intestine Tract Endo
DP01	0RG20A0	Procedure	ICD-10-PCS	Any	0.256	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP01	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.256	Resection Uterus Open
DP01	10H07YZ	Procedure	ICD-10-PCS	Any	0.256	Insertion Other Device Poc
DP01	A7039	Procedure	HCPCS	Any	0.256	Fltr Non Dispbl Pos Arway Prss Devc
DP01	C423	Dispensing	Drug Class	Often	0.256	Choleretics
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.256	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	83735	Procedure	CPT	Any	0.244	Assay Of Magnesium
DP01	C858	Dispensing	Drug Class	Frequent	0.244	Mouth And Throat - Local Anesthetic Mixtures
DP01	C423	Dispensing	Drug Class	Any	0.242	Choleretics
DP01	C691	Dispensing	Drug Class	Frequent	0.242	Folate Antagonist Antibiotics
DP01	83550	Procedure	CPT	Any	0.238	Iron Binding Test
DP01	C1081	Dispensing	Drug Class	Frequent	0.236	Rifamycins And Related Derivative Antibiotics

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	L82	Diagnosis	ICD-10-CM	Any	0.235	Seborrheic Keratosis
DP02	G0481	Procedure	HCPCS	Frequent	1.276	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP02	4A033BC	Procedure	ICD-10-PCS	Any	1.257	Measure Arterial Press Coronary Pc
DP02	0FT44ZZ	Procedure	ICD-10-PCS	Any	1.228	Resect Gallbladder Perq Endo Appr
DP02	02RF38Z	Procedure	ICD-10-PCS	Any	0.94	Repl Aortic Valv Zooplstc Tiss Perq
DP02	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.94	Repair Perineum Muscle Open
DP02	0SRC0J9	Procedure	ICD-10-PCS	Any	0.94	Repl R Knee Joint Synth Cmentd Open
DP02	03HY32Z	Procedure	ICD-10-PCS	Any	0.852	Insert Monit Devc Upper Artery Perq
DP02	0DNW0ZZ	Procedure	ICD-10-PCS	Any	0.852	Release Peritoneum Open Approach
DP02	0DTF4ZZ	Procedure	ICD-10-PCS	Any	0.852	Resection Rt Lg Intestine Perq Endo
DP02	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.852	Inspection Bladder Nat/Art Opn Endo
DP02	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.852	Resection Uterus Open
DP02	0VT04ZZ	Procedure	ICD-10-PCS	Any	0.852	Resection Prostate Perq Endo Appr
DP02	0WUF0JZ	Procedure	ICD-10-PCS	Any	0.852	Supplement Adbominal Wall Syn Open
DP02	B32S1ZZ	Procedure	ICD-10-PCS	Any	0.852	Ct Scan Rt Pulmonary Art Low Osm Ct
DP02	B32T1ZZ	Procedure	ICD-10-PCS	Any	0.852	Ct Scan Lt Pulmonary Art Low Osm Ct
DP02	Q5001	Procedure	HCPCS	Frequent	0.744	Hospice/Home Hlth Care Pt Home/Res
DP02	02HV33Z	Procedure	ICD-10-PCS	Any	0.717	Insrt Infus Devc Sup Vena Cava Perq
DP02	C64	Dispensing	Drug Class	Often	0.717	Androgens
DP02	C1037	Dispensing	Drug Class	Frequent	0.706	Phosphate Binders - Calcium-Based
DP02	0BH17EZ	Procedure	ICD-10-PCS	Any	0.689	Insrt Et Aw Trachea Nat/Art Opening
DP02	G0279	Procedure	HCPCS	Often	0.683	Dx Digtl Brst Tomosynthesis Uni/Bil
DP02	C64	Dispensing	Drug Class	Frequent	0.68	Androgens
DP02	02100Z9	Procedure	ICD-10-PCS	Any	0.669	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP02	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.669	Robotic Asstd Proc Trunk Perq Endo
DP02	C6	Dispensing	Drug Class	Frequent	0.565	Acne Therapy Topical
DP02	021009W	Procedure	ICD-10-PCS	Any	0.564	Bp Ca 1 Art Aorta Auto Ven Tiss Op
DP02	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.564	Excision Of Left Saphenous Vein Pe
DP02	3E033XZ	Procedure	ICD-10-PCS	Any	0.564	Intro Vasopressor Periph Vn Perq
DP02	0SR904A	Procedure	ICD-10-PCS	Any	0.535	Repl R Hip Jnt Ceram Ply Ucment Opn
DP02	0T768DZ	Procedure	ICD-10-PCS	Any	0.535	Dilat Rt Ureter Il Nat/Art Op Endo
DP02	0UB70ZZ	Procedure	ICD-10-PCS	Any	0.535	Excision Bilat Fallopian Tubes Op
DP02	10907ZC	Procedure	ICD-10-PCS	Any	0.535	Drain Amnio Fluid Tx Poc Nat/Art Op

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	30233N1	Procedure	ICD-10-PCS	Any	0.535	Tran Nauto Red Bld Cll Periph Vn Pc
DP02	3E02340	Procedure	ICD-10-PCS	Any	0.535	Intro Influenza Vaccne Muscle Perq
DP02	4A10X4Z	Procedure	ICD-10-PCS	Any	0.535	Monitor Central Nerv Elect Act Ext
DP02	4A11X4G	Procedure	ICD-10-PCS	Any	0.535	Monitor Perip Nerv Elec Intraop Ext
DP02	B211YZZ	Procedure	ICD-10-PCS	Any	0.535	Fluoro Multiple Cor Art Oth Cont
DP02	B24BYZZ	Procedure	ICD-10-PCS	Any	0.535	Usg Heart Aorta Other Contrast
DP02	B548ZZA	Procedure	ICD-10-PCS	Any	0.535	Ultrasonography Sup Vena Cava Guid
DP02	XW033E5	Procedure	ICD-10-PCS	Any	0.535	Intr Remdesivir Periph Vn Perc Nt5
DP02	17003	Procedure	CPT	Any	0.528	Destruct Premalg Les 2-14
DP02	A9502	Procedure	HCPCS	Any	0.524	Tc-99M Tetrofosmin Dx - Study Dose
DP02	H43	Diagnosis	ICD-10-CM	Frequent	0.524	Disorders Of Vitreous Body
DP02	J0897	Procedure	HCPCS	Any	0.519	Injection Denosumab 1 Mg
DP02	5A2204Z	Procedure	ICD-10-PCS	Any	0.495	Restoration Cardiac Rhythm Single
DP02	S9083	Procedure	HCPCS	Any	0.492	Global Fee Urgent Care Centers
DP02	J0696	Procedure	HCPCS	Any	0.449	Inj Ceftriaxone Sodium Per 250 Mg
DP02	C132	Dispensing	Drug Class	Frequent	0.448	Anticonvulsant - Functionalized Amino Acid
DP02	G0299	Procedure	HCPCS	Often	0.448	Dir Sns Rn Hh/Hospice Set Ea 15 Min
DP02	C716	Dispensing	Drug Class	Frequent	0.442	Geriatric Vitamins
DP02	A7039	Procedure	HCPCS	Any	0.44	Fltr Non Dispbl Pos Arway Prss Devc
DP02	G0101	Procedure	HCPCS	Any	0.429	Cerv/Vag Cancr Scr;Pelv&Cln Brst Ex
DP02	J7050	Procedure	HCPCS	Frequent	0.429	Infus Normal Saline Solution 250 Cc
DP02	G0279	Procedure	HCPCS	Any	0.427	Dx Digtl Brst Tomosynthesis Uni/Bil
DP02	J0171	Procedure	HCPCS	Any	0.421	Inj Adrenalin Epinephrine 0.1 Mg
DP02	G0145	Procedure	HCPCS	Any	0.414	Scr Cerv/Vag Auto&Mnl Rscr Phys
DP02	10E0XZZ	Procedure	ICD-10-PCS	Any	0.401	Delivery Products Of Conception Ext
DP02	J1030	Procedure	HCPCS	Any	0.397	Inj Methylprdnisolone Actat 40 Mg
DP02	C64	Dispensing	Drug Class	Any	0.393	Androgens
DP02	97112	Procedure	CPT	Often	0.384	Neuromuscular Reeducation
DP02	J1040	Procedure	HCPCS	Any	0.383	Inj Methylprdnisolone Actat 80 Mg
DP02	10D00Z1	Procedure	ICD-10-PCS	Any	0.382	Extraction Poc Low Open
DP02	C328	Dispensing	Drug Class	Frequent	0.382	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	17000	Procedure	CPT	Any	0.381	Destruct Premalg Lesion
DP02	J1100	Procedure	HCPCS	Any	0.368	Inj Dexmethoson Sodim Phoshate 1 Mg

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	A7030	Procedure	HCPCS	Any	0.366	Full Fce Mask Pos Arway Prss Dev Ea
DP02	Q9966	Procedure	HCPCS	Frequent	0.366	Locm 200-299 Mg/MI I Conc Per MI
DP02	C1173	Dispensing	Drug Class	Frequent	0.365	Unclassified Drug Products
DP02	J3370	Procedure	HCPCS	Any	0.365	Injection Vancomycin Hcl 500 Mg
DP02	U0004	Procedure	HCPCS	Any	0.356	2019-Ncov Coronavirus/Covid-19 Any T
DP02	3E033VJ	Procedure	ICD-10-PCS	Any	0.352	Intro Oth Hormone Periph Vn Perq
DP02	5A1D70Z	Procedure	ICD-10-PCS	Any	0.352	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP02	C44	Dispensing	Drug Class	Frequent	0.352	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	J3420	Procedure	HCPCS	Frequent	0.352	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP02	A7037	Procedure	HCPCS	Any	0.337	Tubing Used W/Pos Arway Press Devc
DP02	97112	Procedure	CPT	Frequent	0.328	Neuromuscular Reeducation
DP02	C328	Dispensing	Drug Class	Often	0.328	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	C145	Dispensing	Drug Class	Frequent	0.326	Anticonvulsant - Phenyltriazine Derivatives
DP02	G0467	Procedure	HCPCS	Frequent	0.326	Fqhc Visit Established Patient
DP02	C716	Dispensing	Drug Class	Any	0.325	Geriatric Vitamins
DP02	96372	Procedure	CPT	Frequent	0.321	Ther/Proph/Diag Inj Sc/Im
DP02	C100	Dispensing	Drug Class	Frequent	0.32	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP02	A9500	Procedure	HCPCS	Any	0.315	Tc-99M Sestamibi Dx Per Study Dose
DP02	K0553	Procedure	HCPCS	Any	0.315	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	Z78	Diagnosis	ICD-10-CM	Frequent	0.315	Other Specified Health Status
DP02	17110	Procedure	CPT	Any	0.312	Destruct B9 Lesion 1-14
DP02	C682	Dispensing	Drug Class	Frequent	0.311	Factor Viii-Mimetic Agent, Monoclonal Antibody
DP02	U07	Diagnosis	ICD-10-CM	Frequent	0.31	Emergency Use Of U07
DP02	C1037	Dispensing	Drug Class	Often	0.309	Phosphate Binders - Calcium-Based
DP02	C217	Dispensing	Drug Class	Any	0.307	Antihyperlipidemic - Bile Acid Sequestrants
DP02	L57	Diagnosis	ICD-10-CM	Any	0.305	Skin Changes Chrn Exps Nonioniz Rad
DP02	97112	Procedure	CPT	Any	0.304	Neuromuscular Reeducation
DP02	C394	Dispensing	Drug Class	Often	0.303	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP02	C6	Dispensing	Drug Class	Any	0.3	Acne Therapy Topical
DP02	C835	Dispensing	Drug Class	Often	0.299	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP02	H25	Diagnosis	ICD-10-CM	Frequent	0.299	Age-Related Cataract
DP02	J2550	Procedure	HCPCS	Any	0.298	Injection Promethazine Hcl To 50 Mg
DP02	C703	Dispensing	Drug Class	Frequent	0.287	Gastric Acidifiers



**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	A7031	Procedure	HCPCS	Any	0.286	Fce Mask Interfce Repl Full Mask Ea
DP02	C226	Dispensing	Drug Class	Often	0.286	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP03	02HV33Z	Procedure	ICD-10-PCS	Often	1.747	Insrt Infus Devc Sup Vena Cava Perq
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	1.585	Excision Of Left Saphenous Vein Pe
DP03	0SG3071	Procedure	ICD-10-PCS	Any	1.41	Fusion Ls Joint Auto Sub Post Pc Op
DP03	009U3ZX	Procedure	ICD-10-PCS	Often	1.298	Drainage Spinal Canal Perq Appr Dx
DP03	021209W	Procedure	ICD-10-PCS	Any	1.298	Bp Ca 3 Art Aorta Auto Ven Tiss Op
DP03	3E0234Z	Procedure	ICD-10-PCS	Frequent	1.298	Intro Serum Toxoid Vac Msc Perq
DP03	0DB64Z3	Procedure	ICD-10-PCS	Any	1.187	Excision Stomach Perq Endo Vertical
DP03	8E0Y0CZ	Procedure	ICD-10-PCS	Any	1.187	Robotic Asstd Proc Lower Ext Opn
DP03	G9920	Procedure	HCPCS	Frequent	1.187	Screening Performed And Negative
DP03	OUT20ZZ	Procedure	ICD-10-PCS	Any	1.115	Resection Bilateral Ovaries Open
DP03	G9920	Procedure	HCPCS	Any	1.107	Screening Performed And Negative
DP03	0FT40ZZ	Procedure	ICD-10-PCS	Any	0.9	Resection Gallbladder Open Approach
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	0.9	Fusion Ls Jnt If Post Appr Ac Open
DP03	30233N1	Procedure	ICD-10-PCS	Frequent	0.9	Tran Nauto Red Bld Cll Periph Vn Pc
DP03	GZHZZZZ	Procedure	ICD-10-PCS	Any	0.9	Group Psychotherapy
DP03	009U3ZX	Procedure	ICD-10-PCS	Any	0.892	Drainage Spinal Canal Perq Appr Dx
DP03	02100Z9	Procedure	ICD-10-PCS	Any	0.892	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP03	03HY32Z	Procedure	ICD-10-PCS	Any	0.892	Insert Monit Devc Upper Artery Perq
DP03	0BH17EZ	Procedure	ICD-10-PCS	Often	0.892	Insrt Et Aw Trachea Nat/Art Opening
DP03	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.892	Repair Diaphragm Percutaneous Endo
DP03	0DB78ZX	Procedure	ICD-10-PCS	Any	0.892	Exc Stom Pylorus Nat/Art Op Endo Dx
DP03	0DB78ZX	Procedure	ICD-10-PCS	Often	0.892	Exc Stom Pylorus Nat/Art Op Endo Dx
DP03	0DB98ZX	Procedure	ICD-10-PCS	Any	0.892	Ex Duodenum Nat/Art Opening Endo Dx
DP03	0DB98ZX	Procedure	ICD-10-PCS	Often	0.892	Ex Duodenum Nat/Art Opening Endo Dx
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Frequent	0.892	Exc Sigmoid Colon Perq Endo Appr
DP03	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.892	Extirpatn Matter Cmn Bile Duct Endo
DP03	0ST40ZZ	Procedure	ICD-10-PCS	Any	0.892	Resection Lumbosacral Disc Open
DP03	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.892	Inspection Bladder Nat/Art Opn Endo
DP03	5A1935Z	Procedure	ICD-10-PCS	Often	0.892	Respiratory Vent < 24 Cons Hours
DP03	6A600ZZ	Procedure	ICD-10-PCS	Any	0.892	Phototherapy Of Skin Single
DP03	B24BZZ4	Procedure	ICD-10-PCS	Often	0.892	Usg Heart Aorta Transesophageal



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	HZ2ZZZZ	Procedure	ICD-10-PCS	Any	0.892	Dtx Services For Substance Abuse Tx
DP03	HZ2ZZZZ	Procedure	ICD-10-PCS	Often	0.892	Dtx Services For Substance Abuse Tx
DP03	OKQM0ZZ	Procedure	ICD-10-PCS	Any	0.813	Repair Perineum Muscle Open
DP03	02HV33Z	Procedure	ICD-10-PCS	Any	0.717	Insrt Infus Devc Sup Vena Cava Perq
DP03	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.71	Resection Uterus Open
DP03	C338	Dispensing	Drug Class	Frequent	0.693	Antithyroid Agents
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Any	0.648	Excision Of Lumbosacral Disc Open
DP03	0UQMXZZ	Procedure	ICD-10-PCS	Frequent	0.605	Repair Vulva External
DP03	G8754	Procedure	HCPCS	Frequent	0.585	Most Recent Diastolic Bp < 90Mm Hg
DP03	G0481	Procedure	HCPCS	Frequent	0.574	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP03	01NR0ZZ	Procedure	ICD-10-PCS	Any	0.494	Release Sacral Nerve Open Approach
DP03	0DB68ZX	Procedure	ICD-10-PCS	Any	0.494	Exc Stomach Nat/Art Opening Endo Dx
DP03	0DJD4ZZ	Procedure	ICD-10-PCS	Any	0.494	Inspect Lw Intest Tract Perq Endo
DP03	0DJD8ZZ	Procedure	ICD-10-PCS	Any	0.494	Inspection Lw Intestinal Tract Endo
DP03	0DTN0ZZ	Procedure	ICD-10-PCS	Any	0.494	Resection Sigmoid Colon Open Appr
DP03	0SG30A0	Procedure	ICD-10-PCS	Any	0.494	Fusion Ls Joint If Ant Appr Ac Open
DP03	0SG30AJ	Procedure	ICD-10-PCS	Frequent	0.494	Fusion Ls Jnt If Post Appr Ac Open
DP03	0T768DZ	Procedure	ICD-10-PCS	Any	0.494	Dilat Rt Ureter Il Nat/Art Op Endo
DP03	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.494	Dilate Cervix Via Natural/Art Opg
DP03	0UB70ZZ	Procedure	ICD-10-PCS	Any	0.494	Excision Bilat Fallopian Tubes Op
DP03	0W9930Z	Procedure	ICD-10-PCS	Any	0.494	Drainage Rt Pleural Cav Drn Devc Pc
DP03	0W9930Z	Procedure	ICD-10-PCS	Often	0.494	Drainage Rt Pleural Cav Drn Devc Pc
DP03	10D07Z6	Procedure	ICD-10-PCS	Any	0.494	Extraction Poc Vacuum Nat/Art Opg
DP03	3E0P7GC	Procedure	ICD-10-PCS	Any	0.494	Intro Oth Tx Sbstnc Fe Reprod
DP03	4A11X4G	Procedure	ICD-10-PCS	Any	0.494	Monitor Perip Nerv Elec Intraop Ext
DP03	8E0YXBZ	Procedure	ICD-10-PCS	Any	0.494	Computer Assisted Proc Lower Extrem
DP03	A9585	Procedure	HCPCS	Any	0.494	Injection Gadobutrol 0.1 Ml
DP03	B211YZZ	Procedure	ICD-10-PCS	Any	0.494	Fluoro Multiple Cor Art Oth Cont
DP03	B24BZZZ	Procedure	ICD-10-PCS	Any	0.494	Ultrasonography Of Heart With Aorta
DP03	C768	Dispensing	Drug Class	Frequent	0.494	Insulin-Like Growth Factor-1 (Igf-1)
DP03	C858	Dispensing	Drug Class	Frequent	0.494	Mouth And Throat - Local Anesthetic Mixtures
DP03	R92	Diagnosis	ICD-10-CM	Frequent	0.489	Abn Inconclusive Find Dx Imag Brst
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.487	Exc Sigmoid Colon Perq Endo Appr

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	0HQ9XZZ	Procedure	ICD-10-PCS	Frequent	0.487	Repair Perineum Skin Ext Approach
DP03	0SRD0J9	Procedure	ICD-10-PCS	Any	0.487	Repl L Knee Joint Synth Cmentd Open
DP03	0VTTXZZ	Procedure	ICD-10-PCS	Any	0.487	Resection Prepuce External Approach
DP03	3E0234Z	Procedure	ICD-10-PCS	Any	0.487	Intro Serum Toxoid Vac Msc Perq
DP03	5A1935Z	Procedure	ICD-10-PCS	Any	0.487	Respiratory Vent < 24 Cons Hours
DP03	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.45	Monitor Prod Concept Cardi Rate Ext
DP03	Q9966	Procedure	HCPCS	Frequent	0.45	Locm 200-299 Mg/MI I Conc Per MI
DP03	Q9966	Procedure	HCPCS	Any	0.437	Locm 200-299 Mg/MI I Conc Per MI
DP03	J3490	Procedure	HCPCS	Frequent	0.433	Unclassified Drugs
DP03	K64	Diagnosis	ICD-10-CM	Frequent	0.423	Hemorrhoids Perian Venous Thromb
DP03	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.422	Resection Bilat Fallopien Tubes Op
DP03	J7298	Procedure	HCPCS	Any	0.399	Lng-Rls Intrauterine Coc Sys 52 Mg
DP03	B2111ZZ	Procedure	ICD-10-PCS	Often	0.389	Fluoro Mx Cor Art Low Osmolar Cont
DP03	C333	Dispensing	Drug Class	Frequent	0.389	Antipsychotic - Dopamine Antagonists
DP03	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.381	Resect Gallbladder Perq Endo Appr
DP03	C835	Dispensing	Drug Class	Frequent	0.373	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP03	C338	Dispensing	Drug Class	Often	0.369	Antithyroid Agents
DP03	C423	Dispensing	Drug Class	Often	0.367	Choleretics
DP03	J2930	Procedure	HCPCS	Any	0.345	Inj Methylprdnisln Sodim To 125 Mg
DP03	G0482	Procedure	HCPCS	Any	0.341	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP03	G0279	Procedure	HCPCS	Any	0.339	Dx Digtl Brst Tomosynthesis Uni/Bil
DP03	J10	Diagnosis	ICD-10-CM	Any	0.333	Flu D/T Oth Id Influenza Virus
DP03	C446	Dispensing	Drug Class	Frequent	0.329	Cyclic Lipopeptide Antibiotics
DP03	A4230	Procedure	HCPCS	Any	0.325	Infus Set Ext Insulin Pump Nonndle
DP03	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.325	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	10907ZC	Procedure	ICD-10-PCS	Any	0.312	Drain Amnio Fluid Tx Poc Nat/Art Op
DP03	4A023N7	Procedure	ICD-10-PCS	Often	0.312	Measur Card Sampl Press Lt Heart Pc
DP03	R92	Diagnosis	ICD-10-CM	Any	0.309	Abn Inconclusive Find Dx Imag Brst
DP03	C882	Dispensing	Drug Class	Any	0.29	Nsaid Analgesics
DP03	G8419	Procedure	HCPCS	Any	0.29	Bmi Doc Out NI Parm No F/U Doc No R
DP03	E0562	Procedure	HCPCS	Frequent	0.286	Humdifir Heat Used W/Pos Arway Prss
DP03	G9551	Procedure	HCPCS	Any	0.279	F Rpt Imag Stdy W/O Incdntl Les Ntd
DP03	C451	Dispensing	Drug Class	Frequent	0.277	Dental Product - Dental Aids

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	C61	Dispensing	Drug Class	Frequent	0.273	Analgesic Or Antipyretic Non-Opioid And Combinations
DP03	G0482	Procedure	HCPCS	Frequent	0.271	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP03	G0008	Procedure	HCPCS	Any	0.269	Administration Influenza Virus Vacc
DP04	E1065	Diagnosis	ICD-9-CM	Any	2.089	No Description Available
DP04	E1140	Diagnosis	ICD-9-CM	Any	1.752	No Description Available
DP04	E162	Diagnosis	ICD-9-CM	Any	1.529	No Description Available
DP04	E781	Diagnosis	ICD-9-CM	Any	1.529	No Description Available
DP04	T1016	Procedure	HCPCS	Frequent	1.321	Case Management Each 15 Mins
DP04	0BQT4ZZ	Procedure	ICD-10-PCS	Any	1.241	Repair Diaphragm Percutaneous Endo
DP04	E1065	Diagnosis	ICD-9-CM	Often	1.241	No Description Available
DP04	E1142	Diagnosis	ICD-9-CM	Any	1.241	No Description Available
DP04	E1165	Diagnosis	ICD-9-CM	Frequent	1.241	No Description Available
DP04	E119	Diagnosis	ICD-9-CM	Frequent	1.241	No Description Available
DP04	E282	Diagnosis	ICD-9-CM	Any	1.241	No Description Available
DP04	N/A	Diagnosis	ICD-9-CM	4rd Quartile	1.241	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	J1040	Procedure	HCPCS	Any	1.221	Inj Methylprdnisalone Actat 80 Mg
DP04	N/A	Diagnosis	ICD-9-CM	2nd Quartile	1.172	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	A7038	Procedure	HCPCS	Frequent	1.157	Fltr Dispbl W/Pos Arway Prss Devc
DP04	3E033VJ	Procedure	ICD-10-PCS	Any	1.124	Intro Oth Hormone Periph Vn Perq
DP04	V2203	Procedure	HCPCS	Any	1.086	Bifocl Plano +/-4.00D 0.12-2.00D Ea
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.059	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	G8783	Procedure	HCPCS	Frequent	1.036	Normal Bp Reading Doc F/U Not Rqr
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.018	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	E559	Diagnosis	ICD-9-CM	Any	0.99	No Description Available
DP04	A4253	Procedure	HCPCS	Frequent	0.956	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	C576	Dispensing	Drug Class	Frequent	0.899	Diagnostic - Blood Tests
DP04	82374	Procedure	CPT	Any	0.885	Assay Blood Carbon Dioxide
DP04	V2755	Procedure	HCPCS	Any	0.876	U-V Lens Per Lens
DP04	S0580	Procedure	HCPCS	Any	0.847	Polycarbonate Lens
DP04	02HV33Z	Procedure	ICD-10-PCS	Any	0.836	Insrt Infus Devc Sup Vena Cava Perq
DP04	0DB64Z3	Procedure	ICD-10-PCS	Any	0.836	Excision Stomach Perq Endo Vertical
DP04	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.836	Repair Perineum Muscle Open
DP04	10D17Z9	Procedure	ICD-10-PCS	Any	0.836	Man Ext Prod Conception Ret Nat/A O

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	E042	Diagnosis	ICD-9-CM	Any	0.836	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Often	0.836	No Description Available
DP04	E1165	Diagnosis	ICD-9-CM	Often	0.836	No Description Available
DP04	E282	Diagnosis	ICD-9-CM	Often	0.836	No Description Available
DP04	E559	Diagnosis	ICD-9-CM	Often	0.836	No Description Available
DP04	E6601	Diagnosis	ICD-9-CM	Any	0.836	No Description Available
DP04	E860	Diagnosis	ICD-9-CM	Any	0.836	Accidental Poisoning By Alcohol Nec
DP04	E890	Diagnosis	ICD-9-CM	Any	0.836	Conflagration In Private Dwelling
DP04	E890	Diagnosis	ICD-9-CM	Often	0.836	Conflagration In Private Dwelling
DP04	G8484	Procedure	HCPCS	Frequent	0.813	Flu Immun Not Adm Reason Not Given
DP04	H2015	Procedure	HCPCS	Frequent	0.813	Comp Cmty Support Svc Per 15 Min
DP04	84155	Procedure	CPT	Any	0.803	Assay Of Protein Serum
DP04	G8484	Procedure	HCPCS	Any	0.795	Flu Immun Not Adm Reason Not Given
DP04	A4253	Procedure	HCPCS	Often	0.774	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	82435	Procedure	CPT	Any	0.769	Assay Of Blood Chloride
DP04	J10	Diagnosis	ICD-10-CM	Frequent	0.764	Flu D/T Oth Id Influenza Virus
DP04	82310	Procedure	CPT	Any	0.753	Assay Of Calcium
DP04	T1016	Procedure	HCPCS	Often	0.749	Case Management Each 15 Mins
DP04	G8482	Procedure	HCPCS	Any	0.74	Influenza Immun Admin/Prev Recv
DP04	C221	Dispensing	Drug Class	Frequent	0.731	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP04	C1173	Dispensing	Drug Class	Frequent	0.717	Unclassified Drug Products
DP04	E1165	Diagnosis	ICD-9-CM	Any	0.702	No Description Available
DP04	S9083	Procedure	HCPCS	Frequent	0.702	Global Fee Urgent Care Centers
DP04	82040	Procedure	CPT	Any	0.676	Assay Of Serum Albumin
DP04	C576	Dispensing	Drug Class	Any	0.668	Diagnostic - Blood Tests
DP04	C792	Dispensing	Drug Class	Frequent	0.666	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP04	84132	Procedure	CPT	Any	0.662	Assay Of Serum Potassium
DP04	G8783	Procedure	HCPCS	Any	0.66	Normal Bp Reading Doc F/U Not Rqr
DP04	84295	Procedure	CPT	Any	0.659	Assay Of Serum Sodium
DP04	E669	Diagnosis	ICD-9-CM	Any	0.654	No Description Available
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.654	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.654	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	82310	Procedure	CPT	Frequent	0.642	Assay Of Calcium

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	Z76	Diagnosis	ICD-10-CM	Frequent	0.624	Pers Enc Hlth Srvc Oth Circumstance
DP04	E785	Diagnosis	ICD-9-CM	Any	0.613	No Description Available
DP04	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.613	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	D7240	Procedure	HCPCS	Any	0.605	Removal Impacted Tooth - Cmpl Bony
DP04	B35	Diagnosis	ICD-10-CM	Frequent	0.595	Dermatophytosis
DP04	F84	Diagnosis	ICD-10-CM	Frequent	0.595	Pervasive Developmental Disorders
DP04	82435	Procedure	CPT	Frequent	0.587	Assay Of Blood Chloride
DP04	R50	Diagnosis	ICD-10-CM	Frequent	0.573	Fever Of Other And Unknown Origin
DP04	S9083	Procedure	HCPCS	Any	0.572	Global Fee Urgent Care Centers
DP04	A0100	Procedure	HCPCS	Often	0.57	Nonemergency Transportation; Taxi
DP04	82374	Procedure	CPT	Frequent	0.569	Assay Blood Carbon Dioxide
DP04	009U3ZX	Procedure	ICD-10-PCS	Any	0.55	Drainage Spinal Canal Perq Appr Dx
DP04	C858	Dispensing	Drug Class	Any	0.55	Mouth And Throat - Local Anesthetic Mixtures
DP04	U0003	Procedure	HCPCS	Any	0.55	Ia Det Dna/Rna; Covid-19 Amp P T
DP04	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.548	Inspect Upper Intestine Tract Endo
DP04	A0100	Procedure	HCPCS	Frequent	0.548	Nonemergency Transportation; Taxi
DP04	C683	Dispensing	Drug Class	Frequent	0.548	Factor X Preparations
DP04	E1122	Diagnosis	ICD-9-CM	Any	0.548	No Description Available
DP04	E119	Diagnosis	ICD-9-CM	Any	0.548	No Description Available
DP04	F91	Diagnosis	ICD-10-CM	Frequent	0.548	Conduct Disorders
DP04	F91	Diagnosis	ICD-10-CM	Often	0.548	Conduct Disorders
DP04	G8417	Procedure	HCPCS	Frequent	0.548	Bmi Doc Abv Nml Param & F/U Pln Doc
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.548	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	J06	Diagnosis	ICD-10-CM	Frequent	0.524	Acute Up Resp Infection Mx Uns Site
DP04	T1017	Procedure	HCPCS	Frequent	0.52	Targeted Case Management Ea 15 Mins
DP04	C380	Dispensing	Drug Class	Frequent	0.519	B-Complex Vitamins And Combinations / Minerals And Electrolytes - Iron And
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.511	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	C1119	Dispensing	Drug Class	Frequent	0.499	Uterine Relaxant - Beta-Adrenergic Agents
DP04	84132	Procedure	CPT	Frequent	0.497	Assay Of Serum Potassium
DP04	F90	Diagnosis	ICD-10-CM	Frequent	0.494	Attention-Deficit Hyperactivity D/O
DP04	J3490	Procedure	HCPCS	Frequent	0.491	Unclassified Drugs
DP04	J2060	Procedure	HCPCS	Any	0.488	Injection Lorazepam 2 Mg
DP04	84295	Procedure	CPT	Frequent	0.481	Assay Of Serum Sodium

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	10907ZC	Procedure	ICD-10-PCS	Any	0.479	Drain Amnio Fluid Tx Poc Nat/Art Op
DP04	10D00Z1	Procedure	ICD-10-PCS	Any	0.479	Extraction Poc Low Open
DP04	84075	Procedure	CPT	Any	0.476	Assay Alkaline Phosphatase
DP04	R05	Diagnosis	ICD-10-CM	Frequent	0.47	Cough
DP05	C679	Dispensing	Drug Class	Frequent	1.154	Factor Ix Preparations
DP05	C768	Dispensing	Drug Class	Frequent	1.056	Insulin-Like Growth Factor-1 (Igf-1)
DP05	C674	Dispensing	Drug Class	Frequent	1.043	Expectorant Combinations - Other
DP05	C341	Dispensing	Drug Class	Often	0.994	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP05	3E033VJ	Procedure	ICD-10-PCS	Any	0.931	Intro Oth Hormone Periph Vn Perq
DP05	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.931	Robotic Asstd Proc Trunk Perq Endo
DP05	C1081	Dispensing	Drug Class	Frequent	0.931	Rifamycins And Related Derivative Antibiotics
DP05	C669	Dispensing	Drug Class	Frequent	0.931	Emergency Contraceptive Combinations
DP05	G0283	Procedure	HCPCS	Frequent	0.874	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	0SG00AJ	Procedure	ICD-10-PCS	Any	0.861	Fusion Lv Joint If Post Appr Ac Opn
DP05	B2111ZZ	Procedure	ICD-10-PCS	Any	0.861	Fluoro Mx Cor Art Low Osmolar Cont
DP05	B2151ZZ	Procedure	ICD-10-PCS	Any	0.861	Fluoro Lt Heart Low Osmolar Contrst
DP05	D8670	Procedure	HCPCS	Frequent	0.768	Periodic Orthodontic Tx Visit
DP05	C338	Dispensing	Drug Class	Frequent	0.755	Antithyroid Agents
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	0.749	Delivery Products Of Conception Ext
DP05	N95	Diagnosis	ICD-10-CM	Frequent	0.735	Menopausal Oth Perimenopausal D/O
DP05	J1030	Procedure	HCPCS	Any	0.699	Inj Methylprdnisolone Actat 40 Mg
DP05	C669	Dispensing	Drug Class	Often	0.698	Emergency Contraceptive Combinations
DP05	4A023N7	Procedure	ICD-10-PCS	Any	0.678	Measur Card Sampl Press Lt Heart Pc
DP05	C169	Dispensing	Drug Class	Frequent	0.654	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	U0004	Procedure	HCPCS	Frequent	0.637	2019-Ncov Coronavirus/Covid-19 Any T
DP05	R35	Diagnosis	ICD-10-CM	Frequent	0.621	Polyuria
DP05	D4910	Procedure	HCPCS	Frequent	0.619	Periodontal Maintenance
DP05	D8670	Procedure	HCPCS	Often	0.616	Periodic Orthodontic Tx Visit
DP05	C858	Dispensing	Drug Class	Frequent	0.606	Mouth And Throat - Local Anesthetic Mixtures
DP05	R20	Diagnosis	ICD-10-CM	Frequent	0.606	Disturbances Of Skin Sensation
DP05	G9903	Procedure	HCPCS	Frequent	0.603	Pt Scr Tob Use & Id As Tob Non-User
DP05	G0463	Procedure	HCPCS	Frequent	0.598	Hos Op Clin Visit Assess & Mgmt Pt
DP05	92012	Procedure	CPT	Frequent	0.583	Eye Exam Establish Patient



**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	Z80	Diagnosis	ICD-10-CM	Frequent	0.572	Fam Hx Primary Malignant Neoplasm
DP05	C169	Dispensing	Drug Class	Often	0.548	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	J1100	Procedure	HCPCS	Any	0.542	Inj Dexmethoson Sodim Phosphate 1 Mg
DP05	0D9670Z	Procedure	ICD-10-PCS	Any	0.526	Drain Stomach Drain Devc Nat/Art Op
DP05	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.526	Repair Perineum Muscle Open
DP05	C679	Dispensing	Drug Class	Often	0.526	Factor Ix Preparations
DP05	G0283	Procedure	HCPCS	Often	0.526	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	D8670	Procedure	HCPCS	Any	0.501	Periodic Orthodontic Tx Visit
DP05	C1008	Dispensing	Drug Class	Any	0.492	Pharmaceutical Adjuvant - Capsule Excipients
DP05	C61	Dispensing	Drug Class	Frequent	0.486	Analgesic Or Antipyretic Non-Opioid And Combinations
DP05	C168	Dispensing	Drug Class	Frequent	0.483	Antidepressant Combinations
DP05	J0696	Procedure	HCPCS	Any	0.482	Inj Ceftriaxone Sodium Per 250 Mg
DP05	C394	Dispensing	Drug Class	Frequent	0.474	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP05	96372	Procedure	CPT	Frequent	0.472	Ther/Proph/Diag Inj Sc/Im
DP05	C479	Dispensing	Drug Class	Any	0.469	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP05	C669	Dispensing	Drug Class	Any	0.469	Emergency Contraceptive Combinations
DP05	97112	Procedure	CPT	Frequent	0.464	Neuromuscular Reeducation
DP05	D50	Diagnosis	ICD-10-CM	Frequent	0.455	Iron Deficiency Anemia
DP05	C703	Dispensing	Drug Class	Frequent	0.452	Gastric Acidifiers
DP05	E29	Diagnosis	ICD-10-CM	Any	0.452	Testicular Dysfunction
DP05	D2392	Procedure	HCPCS	Any	0.45	Resin Compos - 2 Surfaces Posterior
DP05	D2391	Procedure	HCPCS	Any	0.448	Resin Compos - 1 Surface Posterior
DP05	S0620	Procedure	HCPCS	Any	0.448	Routine Ophth Ex W/Refrac; New Pt
DP05	84481	Procedure	CPT	Any	0.444	Free Assay (Ft-3)
DP05	C1033	Dispensing	Drug Class	Any	0.443	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP05	96372	Procedure	CPT	Any	0.442	Ther/Proph/Diag Inj Sc/Im
DP05	D1351	Procedure	HCPCS	Any	0.442	Sealant - Per Tooth
DP05	J2550	Procedure	HCPCS	Any	0.433	Injection Promethazine Hcl To 50 Mg
DP05	A7037	Procedure	HCPCS	Frequent	0.43	Tubing Used W/Pos Arway Press Devc
DP05	C168	Dispensing	Drug Class	Often	0.43	Antidepressant Combinations
DP05	C261	Dispensing	Drug Class	Frequent	0.42	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP05	R63	Diagnosis	ICD-10-CM	Any	0.42	Sx Signs Concerning Food Fl Intake
DP05	C815	Dispensing	Drug Class	Any	0.416	Minerals And Electrolytes - Calcium And Combinations / Minerals And Electrolytes -

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	I25	Diagnosis	ICD-10-CM	Frequent	0.412	Chronic Ischemic Heart Disease
DP05	R68	Diagnosis	ICD-10-CM	Any	0.411	Other General Symptoms And Signs
DP05	99244	Procedure	CPT	Any	0.403	Office Consultation
DP05	C341	Dispensing	Drug Class	Any	0.401	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP05	E29	Diagnosis	ICD-10-CM	Often	0.401	Testicular Dysfunction
DP05	D0272	Procedure	HCPCS	Any	0.396	Bitewings - Two Radiographic Images
DP05	N95	Diagnosis	ICD-10-CM	Any	0.396	Menopausal Oth Perimenopausal D/O
DP05	97530	Procedure	CPT	Frequent	0.392	Therapeutic Activities
DP05	A7030	Procedure	HCPCS	Frequent	0.392	Full Fce Mask Pos Arway Prss Dev Ea
DP05	A7031	Procedure	HCPCS	Frequent	0.392	Fce Mask Interfce Repl Full Mask Ea
DP05	A7032	Procedure	HCPCS	Frequent	0.392	Cushn Nasal Mask Intf Repl Only Ea
DP05	C977	Dispensing	Drug Class	Frequent	0.392	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP05	E04	Diagnosis	ICD-10-CM	Frequent	0.387	Other Nontoxic Goiter
DP05	A7037	Procedure	HCPCS	Any	0.383	Tubing Used W/Pos Arway Press Devc
DP05	C768	Dispensing	Drug Class	Often	0.383	Insulin-Like Growth Factor-1 (Igf-1)
DP05	Z80	Diagnosis	ICD-10-CM	Any	0.376	Fam Hx Primary Malignant Neoplasm
DP05	C217	Dispensing	Drug Class	Frequent	0.375	Antihyperlipidemic - Bile Acid Sequestrants
DP05	C1141	Dispensing	Drug Class	Frequent	0.374	Wound Care - Dressings
DP05	C1173	Dispensing	Drug Class	Any	0.369	Unclassified Drug Products
DP05	C371	Dispensing	Drug Class	Frequent	0.367	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular Sympathomimetics
DP05	D9230	Procedure	HCPCS	Any	0.364	Inhal Nitrous Oxid/Analg Anxiolysis
DP05	C100	Dispensing	Drug Class	Frequent	0.359	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP05	84403	Procedure	CPT	Any	0.357	Assay Of Total Testosterone
DP05	J2270	Procedure	HCPCS	Any	0.35	Inj Morphine Sulfate Up To 10 Mg
DP05	C858	Dispensing	Drug Class	Often	0.343	Mouth And Throat - Local Anesthetic Mixtures
DP05	G0481	Procedure	HCPCS	Any	0.343	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	H10	Diagnosis	ICD-10-CM	Any	0.343	Conjunctivitis
DP05	L4361	Procedure	HCPCS	Any	0.342	Walking Boot Pneumatic And/Or Vac
DP05	Z30	Diagnosis	ICD-10-CM	Frequent	0.341	Enc For Contraceptive Management
DP05	C115	Dispensing	Drug Class	Any	0.336	Antibacterial Other
DP05	97112	Procedure	CPT	Often	0.335	Neuromuscular Reeducation
DP05	96374	Procedure	CPT	Any	0.331	Ther/Proph/Diag Inj Iv Push
DP05	J1885	Procedure	HCPCS	Any	0.327	Inj Ketorolac Tromethamine 15 Mg



**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	96375	Procedure	CPT	Any	0.322	Tx/Pro/Dx Inj New Drug Addon
DP05	C682	Dispensing	Drug Class	Frequent	0.322	Factor Viii-Mimetic Agent, Monoclonal Antibody
DP05	C168	Dispensing	Drug Class	Any	0.321	Antidepressant Combinations
DP05	C1173	Dispensing	Drug Class	Frequent	0.318	Unclassified Drug Products
DP05	G0378	Procedure	HCPCS	Frequent	0.318	Hospital Observatn Service Per Hour
DP06	B4101ZZ	Procedure	ICD-10-PCS	Any	1.606	Fluoro Abd Aorta Lw Osmolar Contrst
DP06	0SG1071	Procedure	ICD-10-PCS	Any	1.424	Fus 2/> Lv Jnt Auto Sub Post Pc Op
DP06	B215YZZ	Procedure	ICD-10-PCS	Any	1.389	Fluoroscopy Lt Heart Other Contrast
DP06	01N10ZZ	Procedure	ICD-10-PCS	Any	1.319	Release Cervical Nerve Open Apprch
DP06	0CJS8ZZ	Procedure	ICD-10-PCS	Any	1.319	Inspect Larynx Via Nat/Art Op Endo
DP06	0QP004Z	Procedure	ICD-10-PCS	Any	1.319	Removal If Devc Lumbar Vertebra Opn
DP06	0SG30AJ	Procedure	ICD-10-PCS	Any	1.319	Fusion Ls Jnt If Post Appr Ac Open
DP06	03CLOZZ	Procedure	ICD-10-PCS	Any	1.166	Extirpat Matter Left Ica Open Appr
DP06	0BH17EZ	Procedure	ICD-10-PCS	Any	1.166	Insrt Et Aw Trachea Nat/Art Opening
DP06	0DBL8ZX	Procedure	ICD-10-PCS	Any	1.166	Ex Trns Colon Nat Or Art Op Endo Dx
DP06	0FC98ZZ	Procedure	ICD-10-PCS	Any	1.166	Extirpatn Matter Cmn Bile Duct Endo
DP06	0RRK00Z	Procedure	ICD-10-PCS	Any	1.166	Rep L Shldr Jnt Rvs Bl&Sck Syn Open
DP06	0W993ZZ	Procedure	ICD-10-PCS	Any	1.166	Drainage Right Pleural Cavity Perq
DP06	Q0092	Procedure	HCPCS	Frequent	0.959	Set-Up Portable X-Ray Equipment
DP06	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.913	Isolation
DP06	B2181ZZ	Procedure	ICD-10-PCS	Any	0.913	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP06	03CN0ZZ	Procedure	ICD-10-PCS	Any	0.879	Extirpat Matter Left Eca Opn Apprch
DP06	05HB33Z	Procedure	ICD-10-PCS	Any	0.879	Ins Infus Dev Rt Basilic Vn Perq
DP06	0BH18EZ	Procedure	ICD-10-PCS	Any	0.879	Insert Et Aw Trach Nat/Art Op Endo
DP06	0DH63UZ	Procedure	ICD-10-PCS	Any	0.879	Insertion Feeding Devc Stomach Perq
DP06	0DJD8ZZ	Procedure	ICD-10-PCS	Any	0.879	Inspection Lw Intestinal Tract Endo
DP06	0F798DZ	Procedure	ICD-10-PCS	Any	0.879	Dil Cmn Bd W Il Dev Nat/Art Op Endo
DP06	0W3P8ZZ	Procedure	ICD-10-PCS	Any	0.879	Control Gastrointest Nat/Art Endo
DP06	4A03X5D	Procedure	ICD-10-PCS	Any	0.879	Measurement Art Flw Intracrn Ext Ap
DP06	Q0092	Procedure	HCPCS	Any	0.838	Set-Up Portable X-Ray Equipment
DP06	C158	Dispensing	Drug Class	Frequent	0.821	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	02HV33Z	Procedure	ICD-10-PCS	Any	0.761	Insrt Infus Devc Sup Vena Cava Perq
DP06	4A023N8	Procedure	ICD-10-PCS	Any	0.731	Measur Cardiac Sampl Press Bilat Pc

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	02HK3JZ	Procedure	ICD-10-PCS	Any	0.696	Ins Pacemakr Lead Rt Ventricle Perq
DP06	0W9930Z	Procedure	ICD-10-PCS	Any	0.696	Drainage Rt Pleural Cav Drn Devc Pc
DP06	B211YZZ	Procedure	ICD-10-PCS	Any	0.696	Fluoro Multiple Cor Art Oth Cont
DP06	C1017	Dispensing	Drug Class	Frequent	0.689	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	04V03DZ	Procedure	ICD-10-PCS	Any	0.625	Rstrc Aa Intralum Devc Perq Appr
DP06	07B74ZX	Procedure	ICD-10-PCS	Any	0.625	Excision Thorax Lymph Perq Endo Dx
DP06	0SG10AJ	Procedure	ICD-10-PCS	Any	0.625	Fus 2/> Lv Jnt If Post Appr Ac Open
DP06	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.625	Resection Uterus Open
DP06	8E0Y0CZ	Procedure	ICD-10-PCS	Any	0.625	Robotic Asstd Proc Lower Ext Opn
DP06	C44	Dispensing	Drug Class	Frequent	0.577	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	G8731	Procedure	HCPCS	Frequent	0.571	Pn Asmt Tool Doc Neg No F/U Pln Rqr
DP06	5A1D70Z	Procedure	ICD-10-PCS	Any	0.542	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP06	0SRB04A	Procedure	ICD-10-PCS	Any	0.508	Repl L Hip Jnt Ceram Ply Ucment Opn
DP06	C1017	Dispensing	Drug Class	Often	0.49	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	00NY0ZZ	Procedure	ICD-10-PCS	Any	0.473	Release Lumbar Spinal Cord Open
DP06	02H63JZ	Procedure	ICD-10-PCS	Any	0.473	Insert Pacemkr Lead Rt Atrium Perq
DP06	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.473	Inspect Upper Intestine Tract Endo
DP06	0JH606Z	Procedure	ICD-10-PCS	Any	0.473	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP06	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.473	Inspection Bladder Nat/Art Opn Endo
DP06	5A1221Z	Procedure	ICD-10-PCS	Any	0.473	Performance Cardiac Output Cont
DP06	5A1945Z	Procedure	ICD-10-PCS	Any	0.473	Respiratory Vent 24-96 Consec Hours
DP06	B24BZZZ	Procedure	ICD-10-PCS	Any	0.473	Ultrasonography Of Heart With Aorta
DP06	C333	Dispensing	Drug Class	Frequent	0.473	Antipsychotic - Dopamine Antagonists
DP06	02RF38Z	Procedure	ICD-10-PCS	Any	0.471	Repl Aortic Valv Zooplstc Tiss Perq
DP06	XW033E5	Procedure	ICD-10-PCS	Any	0.471	Intr Remdesivir Periph Vn Perc Nt5
DP06	C104	Dispensing	Drug Class	Frequent	0.459	Antiarrhythmic - Class I
DP06	C1119	Dispensing	Drug Class	Frequent	0.455	Uterine Relaxant - Beta-Adrenergic Agents
DP06	C64	Dispensing	Drug Class	Often	0.44	Androgens
DP06	C147	Dispensing	Drug Class	Frequent	0.438	Anticonvulsant - Potassium Channel Opener
DP06	C64	Dispensing	Drug Class	Any	0.432	Androgens
DP06	C64	Dispensing	Drug Class	Frequent	0.429	Androgens
DP06	84481	Procedure	CPT	Any	0.421	Free Assay (Ft-3)
DP06	C1115	Dispensing	Drug Class	Any	0.412	Urinary Retention Therapy - Parasympathomimetic Agents

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	C394	Dispensing	Drug Class	Frequent	0.412	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP06	C168	Dispensing	Drug Class	Frequent	0.41	Antidepressant Combinations
DP06	G8730	Procedure	HCPCS	Frequent	0.41	Pain Assess Pos Tool F/U Plan Doc
DP06	C158	Dispensing	Drug Class	Often	0.4	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	B24BZZ4	Procedure	ICD-10-PCS	Any	0.399	Usg Heart Aorta Transesophageal
DP06	C1017	Dispensing	Drug Class	Any	0.395	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	Q9966	Procedure	HCPCS	Frequent	0.395	Locm 200-299 Mg/MI I Conc Per MI
DP06	0SRC0J9	Procedure	ICD-10-PCS	Any	0.387	Repl R Knee Joint Synth Cmentd Open
DP06	G8950	Procedure	HCPCS	Frequent	0.386	Prehtrn/Htn Bp Doc & Indicat F/U Doc
DP06	84403	Procedure	CPT	Any	0.384	Assay Of Total Testosterone
DP06	A0429	Procedure	HCPCS	Any	0.382	Amb Service Bls Emergency Transport
DP06	K1034	Procedure	HCPCS	Frequent	0.381	No Description Available
DP06	C110	Dispensing	Drug Class	Frequent	0.379	Antiarrhythmic - Class Iv / Calcium Channel Blockers
DP06	0SB20ZZ	Procedure	ICD-10-PCS	Any	0.374	Excision Lumbar Vertebral Disc Open
DP06	C338	Dispensing	Drug Class	Frequent	0.37	Antithyroid Agents
DP06	0SRD0J9	Procedure	ICD-10-PCS	Any	0.368	Repl L Knee Joint Synth Cmentd Open
DP06	C221	Dispensing	Drug Class	Frequent	0.366	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP06	C376	Dispensing	Drug Class	Frequent	0.361	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -
DP06	C45	Dispensing	Drug Class	Frequent	0.361	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	C703	Dispensing	Drug Class	Frequent	0.349	Gastric Acidifiers
DP06	G0463	Procedure	HCPCS	Frequent	0.348	Hos Op Clin Visit Assess & Mgmt Pt
DP06	C394	Dispensing	Drug Class	Often	0.346	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP06	C971	Dispensing	Drug Class	Any	0.34	Ophthalmic Decongestant Combinations
DP06	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.338	Intro Anes Agt Periph Nrv&Plexi Pc
DP06	97530	Procedure	CPT	Frequent	0.335	Therapeutic Activities
DP06	027034Z	Procedure	ICD-10-PCS	Any	0.327	Dil Ca 1 Art Rx-Elut II Devc Perq
DP06	C217	Dispensing	Drug Class	Often	0.325	Antihyperlipidemic - Bile Acid Sequestrants
DP06	97530	Procedure	CPT	Often	0.322	Therapeutic Activities
DP06	C145	Dispensing	Drug Class	Frequent	0.322	Anticonvulsant - Phenyltriazine Derivatives
DP06	G0482	Procedure	HCPCS	Frequent	0.32	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP06	C45	Dispensing	Drug Class	Often	0.318	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	G8978	Procedure	HCPCS	Any	0.317	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	86140	Procedure	CPT	Frequent	0.311	C-Reactive Protein

**Appendix C. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm Baloxavir versus Oseltamivir Model (Ages 12 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	C1037	Dispensing	Drug Class	Frequent	0.309	Phosphate Binders - Calcium-Based
DP06	5A09357	Procedure	ICD-10-PCS	Any	0.307	Asst W/Resp Vent < 24 Con Hour Cpap
DP06	C971	Dispensing	Drug Class	Frequent	0.307	Ophthalmic Decongestant Combinations
DP06	Z51	Diagnosis	ICD-10-CM	Frequent	0.307	Encounter For Other Aftercare
DP06	C970	Dispensing	Drug Class	Frequent	0.304	Ophthalmic Antivirals
DP06	G0481	Procedure	HCPCS	Frequent	0.3	Dr Tst Defin Dr Id M P D 8-14 Dr Cl

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st ( $\leq 25$ th), 2nd ( $>25$ th but  $\leq 50$ th), 3rd ( $>50$ th but  $\leq 75$ th), and 4th ( $>75$ th).

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	0DBB8ZX	Procedure	ICD-10-PCS	Any	1.542	Exc Ileum Via Nat/Art Op Endo Dx
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.542	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	0DB68ZX	Procedure	ICD-10-PCS	Any	1.408	Exc Stomach Nat/Art Opening Endo Dx
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	1.254	Drainage Spinal Canal Perq Appr Dx
DP01	0DB78ZX	Procedure	ICD-10-PCS	Any	1.254	Exc Stom Pylorus Nat/Art Op Endo Dx
DP01	30233N1	Procedure	ICD-10-PCS	Any	1.254	Tran Nauto Red Bld Cll Periph Vn Pc
DP01	02HV33Z	Procedure	ICD-10-PCS	Any	1.231	Insrt Infus Devc Sup Vena Cava Perq
DP01	5A1221Z	Procedure	ICD-10-PCS	Any	1.231	Performance Cardiac Output Cont
DP01	XW033E5	Procedure	ICD-10-PCS	Any	1.136	Intr Remdesivir Periph Vn Perc Nt5
DP01	7809	Diagnosis	ICD-9-CM	Frequent	1.072	Other General Symptoms
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.966	Ex Duodenum Nat/Art Opening Endo Dx
DP01	0RG20A0	Procedure	ICD-10-PCS	Any	0.943	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP01	7809	Diagnosis	ICD-9-CM	Often	0.848	Other General Symptoms
DP01	06BP4ZZ	Procedure	ICD-10-PCS	Any	0.848	Excision Of Right Saphenous Vein Pe
DP01	0DB64Z3	Procedure	ICD-10-PCS	Any	0.848	Excision Stomach Perq Endo Vertical
DP01	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.848	Ex Sig Colon Via Nat/Art Op Endo Dx
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.848	Inspect Upper Intestine Tract Endo
DP01	0RGA071	Procedure	ICD-10-PCS	Any	0.848	Fus TI Vert Jnt Auto Sub Post Pc Op
DP01	3E03329	Procedure	ICD-10-PCS	Any	0.848	Intro Oth Anti-Infec Periph Vn Perq
DP01	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.826	Intro Hormone Fe Repr Nat/Art Open
DP01	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.761	Robotic Asstd Proc Trunk Perq Endo
DP01	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.666	Intro Anes Agt Periph Nrv&Plexi Pc
DP01	HZ2ZZZZ	Procedure	ICD-10-PCS	Any	0.666	Dtx Services For Substance Abuse Tx
DP01	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.561	Repair Perineum Muscle Open
DP01	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.561	Dilate Cervix Via Natural/Art Opg
DP01	0VTTXZZ	Procedure	ICD-10-PCS	Any	0.561	Resection Prepuce External Approach
DP01	01N10ZZ	Procedure	ICD-10-PCS	Any	0.538	Release Cervical Nerve Open Apprch
DP01	0D9670Z	Procedure	ICD-10-PCS	Any	0.538	Drain Stomach Drain Devc Nat/Art Op
DP01	0DB38ZX	Procedure	ICD-10-PCS	Any	0.538	Ex Low Esoph Via Nat/Art Op Endo Dx
DP01	0DTJ4ZZ	Procedure	ICD-10-PCS	Any	0.538	Resection Appendix Perq Endoscopic
DP01	0SG3071	Procedure	ICD-10-PCS	Any	0.538	Fusion Ls Joint Auto Sub Post Pc Op
DP01	0SRC0J9	Procedure	ICD-10-PCS	Any	0.538	Repl R Knee Joint Synth Cmentd Open
DP01	0UQMXZZ	Procedure	ICD-10-PCS	Any	0.538	Repair Vulva External

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	10H07YZ	Procedure	ICD-10-PCS	Any	0.538	Insertion Other Device Poc
DP01	3E02340	Procedure	ICD-10-PCS	Any	0.538	Intro Influenza Vaccne Muscle Perq
DP01	C423	Dispensing	Drug Class	Frequent	0.538	Choleretics
DP01	N/A	Diagnosis	ICD-9-CM	2nd Quartile	0.538	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.512	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP01	C768	Dispensing	Drug Class	Frequent	0.500	Insulin-Like Growth Factor-1 (Igf-1)
DP01	10E0XZZ	Procedure	ICD-10-PCS	Any	0.492	Delivery Products Of Conception Ext
DP01	C669	Dispensing	Drug Class	Frequent	0.473	Emergency Contraceptive Combinations
DP01	L03	Diagnosis	ICD-10-CM	Frequent	0.468	Cellulitis And Acute Lymphangitis
DP01	10907ZC	Procedure	ICD-10-PCS	Any	0.443	Drain Amnio Fluid Tx Poc Nat/Art Op
DP01	B2151ZZ	Procedure	ICD-10-PCS	Any	0.443	Fluoro Lt Heart Low Osmolar Contrst
DP01	J7298	Procedure	HCPCS	Any	0.438	Lng-Rls Intrauterine Coc Sys 52 Mg
DP01	A9500	Procedure	HCPCS	Any	0.437	Tc-99M Sestamibi Dx Per Study Dose
DP01	C221	Dispensing	Drug Class	Frequent	0.430	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP01	C1149	Dispensing	Drug Class	Frequent	0.427	Anesthetics
DP01	G0399	Procedure	HCPCS	Any	0.420	Hst Type Iii Prtble Mon Min 4 Ch
DP01	G8417	Procedure	HCPCS	Frequent	0.420	Bmi Doc Abv Nml Param & F/U Pln Doc
DP01	J0585	Procedure	HCPCS	Any	0.418	Botulinum Toxin Type A Per Unit
DP01	C333	Dispensing	Drug Class	Frequent	0.415	Antipsychotic - Dopamine Antagonists
DP01	G0145	Procedure	HCPCS	Any	0.404	Scr Cerv/Vag Auto&Mnl Rscr Phys
DP01	J3420	Procedure	HCPCS	Frequent	0.395	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP01	C829	Dispensing	Drug Class	Frequent	0.391	Minerals And Electrolytes - Manganese And Combinations
DP01	G8510	Procedure	HCPCS	Any	0.390	Scr Depr Doc Neg A F/U Plan Not Rqr
DP01	C1115	Dispensing	Drug Class	Any	0.387	Urinary Retention Therapy - Parasympathomimetic Agents
DP01	C168	Dispensing	Drug Class	Frequent	0.385	Antidepressant Combinations
DP01	L1902	Procedure	HCPCS	Any	0.379	Ank Orth Ank Gauntlt/Sim Prefab Ots
DP01	7809	Diagnosis	ICD-9-CM	Any	0.378	Other General Symptoms
DP01	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.378	Repair Perineum Skin Ext Approach
DP01	3E0234Z	Procedure	ICD-10-PCS	Any	0.378	Intro Serum Toxoid Vac Msc Perq
DP01	C1894	Procedure	HCPCS	Any	0.375	IntrducR/Sheath Not Guid Non-LasR
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.373	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	87502	Procedure	CPT	Any	0.366	Influenza Dna Amp Probe
DP01	J0585	Procedure	HCPCS	Often	0.366	Botulinum Toxin Type A Per Unit

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	D22	Diagnosis	ICD-10-CM	Frequent	0.365	Melanocytic Nevi
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.363	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	A7039	Procedure	HCPCS	Any	0.360	Fltr Non Dispbl Pos Arway Prss Devc
DP01	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.356	Resect Gallbladder Perq Endo Appr
DP01	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.356	Resection Bilat Fallopiian Tubes Op
DP01	C423	Dispensing	Drug Class	Often	0.356	Choleretics
DP01	C328	Dispensing	Drug Class	Any	0.348	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	C328	Dispensing	Drug Class	Frequent	0.348	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	C168	Dispensing	Drug Class	Often	0.346	Antidepressant Combinations
DP01	C423	Dispensing	Drug Class	Any	0.341	Choleretics
DP01	L4361	Procedure	HCPCS	Any	0.341	Walking Boot Pneumatic And/Or Vac
DP01	C1119	Dispensing	Drug Class	Frequent	0.339	Uterine Relaxant - Beta-Adrenergic Agents
DP01	Z02	Diagnosis	ICD-10-CM	Any	0.331	Encounter For Administrative Exam
DP01	C917	Dispensing	Drug Class	Frequent	0.320	Nutritional Product - Msud Specific Formulation
DP01	Z02	Diagnosis	ICD-10-CM	Often	0.320	Encounter For Administrative Exam
DP01	C338	Dispensing	Drug Class	Frequent	0.319	Antithyroid Agents
DP01	G0444	Procedure	HCPCS	Any	0.319	Annual Depression Screening 15 Min
DP01	J1071	Procedure	HCPCS	Often	0.315	Inj Testosterone Cypionate 1 Mg
DP01	C682	Dispensing	Drug Class	Often	0.310	Factor Viii-Mimetic Agent, Monoclonal Antibody
DP01	U0002	Procedure	HCPCS	Frequent	0.309	2019-Ncov Covid-19 Sars-Cov-2/2019
DP01	C669	Dispensing	Drug Class	Often	0.306	Emergency Contraceptive Combinations
DP01	S0281	Procedure	HCPCS	Any	0.304	Med Home Program Care Coord Maint
DP01	C337	Dispensing	Drug Class	Frequent	0.302	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological - Local
DP01	Z02	Diagnosis	ICD-10-CM	Frequent	0.298	Encounter For Administrative Exam
DP01	J40	Diagnosis	ICD-10-CM	Any	0.297	Bronchitis Not Spec As Acute/Chron
DP01	C1081	Dispensing	Drug Class	Any	0.295	Rifamycins And Related Derivative Antibiotics
DP01	G2023	Procedure	HCPCS	Frequent	0.285	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	S0281	Procedure	HCPCS	Often	0.284	Med Home Program Care Coord Maint
DP01	J7050	Procedure	HCPCS	Frequent	0.278	Infus Normal Saline Solution 250 Cc
DP01	C328	Dispensing	Drug Class	Often	0.276	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	U07	Diagnosis	ICD-10-CM	Frequent	0.276	Emergency Use Of U07
DP01	Z80	Diagnosis	ICD-10-CM	Frequent	0.276	Fam Hx Primary Malignant Neoplasm
DP01	J0780	Procedure	HCPCS	Any	0.270	Inj Prochlorperazine To 10 Mg



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	M19	Diagnosis	ICD-10-CM	Frequent	0.260	Other & Unspecified Osteoarthritis
DP02	G0481	Procedure	HCPCS	Frequent	1.160	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP02	03HY32Z	Procedure	ICD-10-PCS	Any	0.919	Insert Monit Devc Upper Artery Perq
DP02	0DNW0ZZ	Procedure	ICD-10-PCS	Any	0.919	Release Peritoneum Open Approach
DP02	0DTF4ZZ	Procedure	ICD-10-PCS	Any	0.919	Resection Rt Lg Intestine Perq Endo
DP02	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.919	Extirpatn Matter Cmn Bile Duct Endo
DP02	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.919	Inspection Bladder Nat/Art Opn Endo
DP02	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.919	Resection Bilat Fallopian Tubes Op
DP02	0VT04ZZ	Procedure	ICD-10-PCS	Any	0.919	Resection Prostate Perq Endo Appr
DP02	0WUF0JZ	Procedure	ICD-10-PCS	Any	0.919	Supplement Adbominal Wall Syn Open
DP02	4A033BC	Procedure	ICD-10-PCS	Any	0.919	Measure Arterial Press Coronary Pc
DP02	5A1D70Z	Procedure	ICD-10-PCS	Any	0.919	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP02	B32S1ZZ	Procedure	ICD-10-PCS	Any	0.919	Ct Scan Rt Pulmonary Art Low Osm Ct
DP02	B32T1ZZ	Procedure	ICD-10-PCS	Any	0.919	Ct Scan Lt Pulmonary Art Low Osm Ct
DP02	0BH17EZ	Procedure	ICD-10-PCS	Any	0.873	Insrt Et Aw Trachea Nat/Art Opening
DP02	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.873	Repair Perineum Muscle Open
DP02	0SRC0J9	Procedure	ICD-10-PCS	Any	0.873	Repl R Knee Joint Synth Cmentd Open
DP02	Q0091	Procedure	HCPCS	Any	0.747	Scr Pap Smer; Obtain Prep&Convy-Lab
DP02	17003	Procedure	CPT	Any	0.746	Destruct Premalg Les 2-14
DP02	C64	Dispensing	Drug Class	Often	0.690	Androgens
DP02	J0171	Procedure	HCPCS	Any	0.668	Inj Adrenalin Epinephrine 0.1 Mg
DP02	02HV33Z	Procedure	ICD-10-PCS	Any	0.621	Insrt Infus Devc Sup Vena Cava Perq
DP02	30233N1	Procedure	ICD-10-PCS	Any	0.621	Tran Nauto Red Bld Cll Periph Vn Pc
DP02	J1200	Procedure	HCPCS	Frequent	0.621	Inj Diphenhydramine Hcl To 50 Mg
DP02	C64	Dispensing	Drug Class	Frequent	0.610	Androgens
DP02	A7030	Procedure	HCPCS	Any	0.575	Full Fce Mask Pos Arway Prss Dev Ea
DP02	A7039	Procedure	HCPCS	Any	0.559	Fltr Non Dispbl Pos Arway Prss Devc
DP02	H43	Diagnosis	ICD-10-CM	Frequent	0.532	Disorders Of Vitreous Body
DP02	C64	Dispensing	Drug Class	Any	0.528	Androgens
DP02	17000	Procedure	CPT	Any	0.521	Destruct Premalg Lesion
DP02	G0279	Procedure	HCPCS	Often	0.511	Dx Digtl Brst Tomosynthesis Uni/Bil
DP02	G0101	Procedure	HCPCS	Any	0.509	Cerv/Vag Cancr Scr;Pelv&Cln Brst Ex
DP02	Q5001	Procedure	HCPCS	Frequent	0.508	Hospice/Home Hlth Care Pt Home/Res



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	J1100	Procedure	HCPCS	Frequent	0.499	Inj Dexmethoson Sodim Phoshate 1 Mg
DP02	C716	Dispensing	Drug Class	Frequent	0.489	Geriatric Vitamins
DP02	C100	Dispensing	Drug Class	Frequent	0.484	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP02	A7031	Procedure	HCPCS	Any	0.483	Fce Mask Interfce Repl Full Mask Ea
DP02	A7037	Procedure	HCPCS	Any	0.478	Tubing Used W/Pos Arway Press Devc
DP02	021009W	Procedure	ICD-10-PCS	Any	0.467	Bp Ca 1 Art Aorta Auto Ven Tiss Op
DP02	021109W	Procedure	ICD-10-PCS	Any	0.467	Bp Ca 2 Art Aorta Auto Ven Tiss Op
DP02	02RF38Z	Procedure	ICD-10-PCS	Any	0.467	Repl Aortic Valv Zooplstc Tiss Perq
DP02	0SR904A	Procedure	ICD-10-PCS	Any	0.467	Repl R Hip Jnt Ceram Ply Ucement Opn
DP02	0T768DZ	Procedure	ICD-10-PCS	Any	0.467	Dilat Rt Ureter Il Nat/Art Op Endo
DP02	0UB70ZZ	Procedure	ICD-10-PCS	Any	0.467	Excision Bilat Fallopian Tubes Op
DP02	10907ZC	Procedure	ICD-10-PCS	Any	0.467	Drain Amnio Fluid Tx Poc Nat/Art Op
DP02	3E0F7SF	Procedure	ICD-10-PCS	Any	0.467	Intro Oth Gas Resp Tract Nat/Art Op
DP02	4A10X4Z	Procedure	ICD-10-PCS	Any	0.467	Monitor Central Nerv Elect Act Ext
DP02	4A11X4G	Procedure	ICD-10-PCS	Any	0.467	Monitor Perip Nerv Elec Intraop Ext
DP02	5A1945Z	Procedure	ICD-10-PCS	Any	0.467	Respiratory Vent 24-96 Consec Hours
DP02	C147	Dispensing	Drug Class	Frequent	0.467	Anticonvulsant - Potassium Channel Opener
DP02	C409	Dispensing	Drug Class	Frequent	0.467	Catheter Lock Solutions
DP02	J0897	Procedure	HCPCS	Any	0.467	Injection Denosumab 1 Mg
DP02	C145	Dispensing	Drug Class	Frequent	0.457	Anticonvulsant - Phenyltriazine Derivatives
DP02	10D00Z1	Procedure	ICD-10-PCS	Any	0.449	Extraction Poc Low Open
DP02	Q9966	Procedure	HCPCS	Frequent	0.449	Locm 200-299 Mg/MI I Conc Per MI
DP02	A9502	Procedure	HCPCS	Any	0.440	Tc-99M Tetrofosmin Dx - Study Dose
DP02	G0299	Procedure	HCPCS	Often	0.433	Dir Sns Rn Hh/Hospice Set Ea 15 Min
DP02	S9083	Procedure	HCPCS	Any	0.432	Global Fee Urgent Care Centers
DP02	C1037	Dispensing	Drug Class	Frequent	0.431	Phosphate Binders - Calcium-Based
DP02	L57	Diagnosis	ICD-10-CM	Any	0.428	Skin Changes Chrn Exps Nonioniz Rad
DP02	N/A	Procedure	ICD-10-PCS	1st Quartile	0.424	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	J1650	Procedure	HCPCS	Frequent	0.421	Injection Enoxaparin Sodium 10 Mg
DP02	A9500	Procedure	HCPCS	Any	0.411	Tc-99M Sestamibi Dx Per Study Dose
DP02	C132	Dispensing	Drug Class	Frequent	0.408	Anticonvulsant - Functionalized Amino Acid
DP02	C394	Dispensing	Drug Class	Frequent	0.400	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP02	J3420	Procedure	HCPCS	Frequent	0.396	Inj Vit B-12 Cynocoblmn To 1000 Mcg

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	A7038	Procedure	HCPCS	Frequent	0.393	Fltr Dispbl W/Pos Arway Prss Devc
DP02	J7050	Procedure	HCPCS	Frequent	0.387	Infus Normal Saline Solution 250 Cc
DP02	C371	Dispensing	Drug Class	Frequent	0.378	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular Sympathomimetics
DP02	G0279	Procedure	HCPCS	Any	0.374	Dx Digtl Brst Tomosynthesis Uni/Bil
DP02	G0299	Procedure	HCPCS	Any	0.374	Dir Sns Rn Hh/Hospice Set Ea 15 Min
DP02	C380	Dispensing	Drug Class	Frequent	0.373	B-Complex Vitamins And Combinations / Minerals And Electrolytes - Iron And
DP02	J0696	Procedure	HCPCS	Any	0.371	Inj Ceftriaxone Sodium Per 250 Mg
DP02	C328	Dispensing	Drug Class	Frequent	0.362	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	C215	Dispensing	Drug Class	Frequent	0.358	Antihyperlipidemic - Atp-Citrate Lyase (Acly) Inhibitor
DP02	C6	Dispensing	Drug Class	Frequent	0.354	Acne Therapy Topical
DP02	L57	Diagnosis	ICD-10-CM	Frequent	0.352	Skin Changes Chrn Exps Nonioniz Rad
DP02	C100	Dispensing	Drug Class	Often	0.351	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP02	K0553	Procedure	HCPCS	Frequent	0.351	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	C716	Dispensing	Drug Class	Any	0.349	Geriatric Vitamins
DP02	N/A	Procedure	ICD-10-PCS	1st Quartile	0.344	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	93306	Procedure	CPT	Frequent	0.335	Tte W/Doppler Complete
DP02	10E0XZZ	Procedure	ICD-10-PCS	Any	0.334	Delivery Products Of Conception Ext
DP02	C559	Dispensing	Drug Class	Any	0.334	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP02	99394	Procedure	CPT	Any	0.328	Prev Visit Est Age 12-17
DP02	J2785	Procedure	HCPCS	Any	0.327	Injection Regadenoson 0.1 Mg
DP02	J1040	Procedure	HCPCS	Any	0.325	Inj Methylprdnisolone Actat 80 Mg
DP02	J1100	Procedure	HCPCS	Any	0.318	Inj Dexmethoson Sodim Phoshate 1 Mg
DP02	C217	Dispensing	Drug Class	Any	0.317	Antihyperlipidemic - Bile Acid Sequestrants
DP02	C1119	Dispensing	Drug Class	Frequent	0.315	Uterine Relaxant - Beta-Adrenergic Agents
DP02	A7031	Procedure	HCPCS	Frequent	0.313	Fce Mask Interfce Repl Full Mask Ea
DP02	H40	Diagnosis	ICD-10-CM	Frequent	0.313	Glaucoma
DP02	C858	Dispensing	Drug Class	Frequent	0.308	Mouth And Throat - Local Anesthetic Mixtures
DP02	Z85	Diagnosis	ICD-10-CM	Frequent	0.308	Personal History Malignant Neoplasm
DP02	17110	Procedure	CPT	Any	0.305	Destruct B9 Lesion 1-14
DP02	L82	Diagnosis	ICD-10-CM	Frequent	0.303	Seborrheic Keratosis
DP02	M99	Diagnosis	ICD-10-CM	Often	0.303	Biomechanical Lesions Nec
DP02	V2020	Procedure	HCPCS	Any	0.301	Frames Purchases
DP02	C338	Dispensing	Drug Class	Frequent	0.295	Antithyroid Agents

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	M99	Diagnosis	ICD-10-CM	Frequent	0.295	Biomechanical Lesions Nec
DP02	E0601	Procedure	HCPCS	Any	0.294	Continuous Pos Airway Pressure Devc
DP03	5A1935Z	Procedure	ICD-10-PCS	Often	1.533	Respiratory Vent < 24 Cons Hours
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Often	1.245	Excision Of Lumbosacral Disc Open
DP03	3E0234Z	Procedure	ICD-10-PCS	Frequent	1.245	Intro Serum Toxoid Vac Msc Perq
DP03	0SG3071	Procedure	ICD-10-PCS	Any	1.240	Fusion Ls Joint Auto Sub Post Pc Op
DP03	8E0Y0CZ	Procedure	ICD-10-PCS	Any	1.240	Robotic Asstd Proc Lower Ext Opn
DP03	3E0234Z	Procedure	ICD-10-PCS	Any	1.127	Intro Serum Toxoid Vac Msc Perq
DP03	00HU33Z	Procedure	ICD-10-PCS	Any	0.952	Insert Infus Devc Spinal Canal Perq
DP03	0DB64Z3	Procedure	ICD-10-PCS	Any	0.952	Excision Stomach Perq Endo Vertical
DP03	10907ZC	Procedure	ICD-10-PCS	Any	0.952	Drain Amnio Fluid Tx Poc Nat/Art Op
DP03	A0398	Procedure	HCPCS	Any	0.952	Als Routine Disposable Supplies
DP03	G9920	Procedure	HCPCS	Frequent	0.952	Screening Performed And Negative
DP03	GZHZZZZ	Procedure	ICD-10-PCS	Any	0.952	Group Psychotherapy
DP03	021209W	Procedure	ICD-10-PCS	Any	0.840	Bp Ca 3 Art Aorta Auto Ven Tiss Op
DP03	03HY32Z	Procedure	ICD-10-PCS	Any	0.840	Insert Monit Devc Upper Artery Perq
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.840	Excision Of Left Saphenous Vein Pe
DP03	0BH17EZ	Procedure	ICD-10-PCS	Often	0.840	Insrt Et Aw Trachea Nat/Art Opening
DP03	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.840	Repair Diaphragm Percutaneous Endo
DP03	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.840	Extirpatn Matter Cmn Bile Duct Endo
DP03	0ST40ZZ	Procedure	ICD-10-PCS	Any	0.840	Resection Lumbosacral Disc Open
DP03	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.840	Resection Bilat Fallopian Tubes Op
DP03	0VT04ZZ	Procedure	ICD-10-PCS	Any	0.840	Resection Prostate Perq Endo Appr
DP03	10D17Z9	Procedure	ICD-10-PCS	Any	0.840	Man Ext Prod Conception Ret Nat/A O
DP03	5A1221Z	Procedure	ICD-10-PCS	Any	0.840	Performance Cardiac Output Cont
DP03	5A1935Z	Procedure	ICD-10-PCS	Any	0.840	Respiratory Vent < 24 Cons Hours
DP03	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.840	Robotic Asstd Proc Trunk Perq Endo
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.840	Isolation
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Often	0.840	Isolation
DP03	HZZZZZZ	Procedure	ICD-10-PCS	Any	0.840	Dtx Services For Substance Abuse Tx
DP03	XW033E5	Procedure	ICD-10-PCS	Any	0.840	Intr Remdesivir Periph Vn Perc Nt5
DP03	XW033E5	Procedure	ICD-10-PCS	Often	0.840	Intr Remdesivir Periph Vn Perc Nt5
DP03	G9920	Procedure	HCPCS	Any	0.815	Screening Performed And Negative

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	0.770	Fusion Ls Jnt If Post Appr Ac Open
DP03	C338	Dispensing	Drug Class	Frequent	0.708	Antithyroid Agents
DP03	Q9966	Procedure	HCPCS	Frequent	0.686	Locm 200-299 Mg/MI I Conc Per MI
DP03	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.642	Repair Perineum Skin Ext Approach
DP03	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.631	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	C226	Dispensing	Drug Class	Frequent	0.604	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP03	C768	Dispensing	Drug Class	Frequent	0.569	Insulin-Like Growth Factor-1 (Igf-1)
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.552	Exc Sigmoid Colon Perq Endo Appr
DP03	0DB68ZX	Procedure	ICD-10-PCS	Any	0.547	Exc Stomach Nat/Art Opening Endo Dx
DP03	0FT40ZZ	Procedure	ICD-10-PCS	Any	0.547	Resection Gallbladder Open Approach
DP03	0FT44ZZ	Procedure	ICD-10-PCS	Often	0.547	Resect Gallbladder Perq Endo Appr
DP03	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.547	Repair Perineum Muscle Open
DP03	0T768DZ	Procedure	ICD-10-PCS	Any	0.547	Dilat Rt Ureter II Nat/Art Op Endo
DP03	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.547	Dilate Cervix Via Natural/Art Opg
DP03	0W9930Z	Procedure	ICD-10-PCS	Any	0.547	Drainage Rt Pleural Cav Drn Devc Pc
DP03	0W9930Z	Procedure	ICD-10-PCS	Often	0.547	Drainage Rt Pleural Cav Drn Devc Pc
DP03	10D07Z6	Procedure	ICD-10-PCS	Any	0.547	Extraction Poc Vacuum Nat/Art Opg
DP03	30233N1	Procedure	ICD-10-PCS	Frequent	0.547	Tran Nauto Red Bld CII Periph Vn Pc
DP03	3E033VJ	Procedure	ICD-10-PCS	Any	0.547	Intro Oth Hormone Periph Vn Perq
DP03	3E0P7GC	Procedure	ICD-10-PCS	Any	0.547	Intro Oth Tx Substnc Fe Reprod
DP03	4A11X4G	Procedure	ICD-10-PCS	Any	0.547	Monitor Perip Nerv Elec Intraop Ext
DP03	B211YZZ	Procedure	ICD-10-PCS	Any	0.547	Fluoro Multiple Cor Art Oth Cont
DP03	B548ZZA	Procedure	ICD-10-PCS	Any	0.547	Ultrasonography Sup Vena Cava Guid
DP03	J3490	Procedure	HCPCS	Frequent	0.532	Unclassified Drugs
DP03	G8754	Procedure	HCPCS	Frequent	0.526	Most Recent Diastolic Bp < 90Mm Hg
DP03	G8732	Procedure	HCPCS	Any	0.486	No Doc Pain Asmt Reason Not Given
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.483	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	B35	Diagnosis	ICD-10-CM	Frequent	0.480	Dermatophytosis
DP03	G8419	Procedure	HCPCS	Any	0.472	Bmi Doc Out NI Parm No F/U Doc No R
DP03	C338	Dispensing	Drug Class	Often	0.464	Antithyroid Agents
DP03	A7031	Procedure	HCPCS	Frequent	0.463	Fce Mask Interfce Repl Full Mask Ea
DP03	Q9966	Procedure	HCPCS	Any	0.457	Locm 200-299 Mg/MI I Conc Per MI
DP03	G8732	Procedure	HCPCS	Often	0.441	No Doc Pain Asmt Reason Not Given

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.434	Release Lumbar Nerve Open Approach
DP03	10D00Z1	Procedure	ICD-10-PCS	Any	0.424	Extraction Poc Low Open
DP03	A9575	Procedure	HCPCS	Any	0.417	Inj Gadoterate Meglumine 0.1 MI
DP03	02HV33Z	Procedure	ICD-10-PCS	Any	0.413	Insrt Infus Devc Sup Vena Cava Perq
DP03	C835	Dispensing	Drug Class	Frequent	0.413	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP03	G0008	Procedure	HCPCS	Any	0.409	Administration Influenza Virus Vacc
DP03	J7030	Procedure	HCPCS	Frequent	0.398	Infus Normal Saline Sol 1000 Cc
DP03	J0585	Procedure	HCPCS	Often	0.393	Botulinum Toxin Type A Per Unit
DP03	C1115	Dispensing	Drug Class	Any	0.392	Urinary Retention Therapy - Parasympathomimetic Agents
DP03	J0585	Procedure	HCPCS	Any	0.386	Botulinum Toxin Type A Per Unit
DP03	E0601	Procedure	HCPCS	Frequent	0.375	Continuous Pos Airway Pressure Devc
DP03	A4230	Procedure	HCPCS	Any	0.372	Infus Set Ext Insulin Pump Nonndle
DP03	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.370	Resect Gallbladder Perq Endo Appr
DP03	0SRC0J9	Procedure	ICD-10-PCS	Any	0.370	Repl R Knee Joint Synth Cmentd Open
DP03	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.370	Intro Hormone Fe Repr Nat/Art Open
DP03	J10	Diagnosis	ICD-10-CM	Any	0.369	Flu D/T Oth Id Influenza Virus
DP03	02HV33Z	Procedure	ICD-10-PCS	Often	0.364	Insrt Infus Devc Sup Vena Cava Perq
DP03	C423	Dispensing	Drug Class	Often	0.364	Choleretics
DP03	J1050	Procedure	HCPCS	Frequent	0.364	Inj Medroxyprogesterone Acetate 1 Mg
DP03	J2930	Procedure	HCPCS	Any	0.359	Inj Methylprdnisln Sodim To 125 Mg
DP03	A7031	Procedure	HCPCS	Any	0.353	Fce Mask Interfce Repl Full Mask Ea
DP03	G8484	Procedure	HCPCS	Any	0.353	Flu Immun Not Adm Reason Not Given
DP03	J7644	Procedure	HCPCS	Any	0.352	Ipratropium Brom Inhal Non-Cp U Mg
DP03	C341	Dispensing	Drug Class	Frequent	0.350	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP03	J1200	Procedure	HCPCS	Any	0.350	Inj Diphenhydramine Hcl To 50 Mg
DP03	A4232	Procedure	HCPCS	Any	0.333	Syringe Ndle Ext Insulin Pump Sterl
DP03	G8541	Procedure	HCPCS	Any	0.328	Func Outcome Assess Not Doc No Rsn
DP03	B2111ZZ	Procedure	ICD-10-PCS	Often	0.323	Fluoro Mx Cor Art Low Osmolar Cont
DP03	D48	Diagnosis	ICD-10-CM	Frequent	0.323	Neoplasm Uncert Bhv Oth & Uns Site
DP03	A9585	Procedure	HCPCS	Any	0.318	Injection Gadobutrol 0.1 MI
DP03	C1099	Dispensing	Drug Class	Frequent	0.314	Tetracycline Antibiotics And Combinations
DP03	G8754	Procedure	HCPCS	Any	0.313	Most Recent Diastolic Bp < 90Mm Hg
DP03	E0562	Procedure	HCPCS	Frequent	0.310	Humdifir Heat Used W/Pos Arway Prss

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	G0279	Procedure	HCPCS	Any	0.304	Dx Digtl Brst Tomosynthesis Uni/Bil
DP03	C446	Dispensing	Drug Class	Frequent	0.295	Cyclic Lipopeptide Antibiotics
DP03	73630	Procedure	CPT	Frequent	0.293	X-Ray Exam Of Foot
DP04	E1065	Diagnosis	ICD-9-CM	Any	1.811	No Description Available
DP04	N/A	Diagnosis	ICD-9-CM	2nd Quartile	1.811	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	C576	Dispensing	Drug Class	Frequent	1.772	Diagnostic - Blood Tests
DP04	3E033VJ	Procedure	ICD-10-PCS	Any	1.629	Intro Oth Hormone Periph Vn Perq
DP04	E162	Diagnosis	ICD-9-CM	Any	1.406	No Description Available
DP04	E559	Diagnosis	ICD-9-CM	Any	1.406	No Description Available
DP04	N/A	Diagnosis	ICD-9-CM	2nd Quartile	1.406	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	J1040	Procedure	HCPCS	Any	1.302	Inj Methylprdnisolone Actat 80 Mg
DP04	A7038	Procedure	HCPCS	Frequent	1.184	Fltr Dispbl W/Pos Arway Prss Devc
DP04	S0580	Procedure	HCPCS	Any	1.180	Polycarbonate Lens
DP04	V2203	Procedure	HCPCS	Any	1.151	Bifocl Plano +/-4.00D 0.12-2.00D Ea
DP04	0BQT4ZZ	Procedure	ICD-10-PCS	Any	1.118	Repair Diaphragm Percutaneous Endo
DP04	0KQM0ZZ	Procedure	ICD-10-PCS	Any	1.118	Repair Perineum Muscle Open
DP04	E1065	Diagnosis	ICD-9-CM	Often	1.118	No Description Available
DP04	E1140	Diagnosis	ICD-9-CM	Any	1.118	No Description Available
DP04	E1165	Diagnosis	ICD-9-CM	Frequent	1.118	No Description Available
DP04	E119	Diagnosis	ICD-9-CM	Frequent	1.118	No Description Available
DP04	E559	Diagnosis	ICD-9-CM	Often	1.118	No Description Available
DP04	A7030	Procedure	HCPCS	Frequent	1.079	Full Fce Mask Pos Arway Prss Dev Ea
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.031	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	C858	Dispensing	Drug Class	Frequent	0.961	Mouth And Throat - Local Anesthetic Mixtures
DP04	V2755	Procedure	HCPCS	Any	0.961	U-V Lens Per Lens
DP04	82374	Procedure	CPT	Any	0.957	Assay Blood Carbon Dioxide
DP04	82465	Procedure	CPT	Any	0.946	Assay Bld/Serum Cholesterol
DP04	T1016	Procedure	HCPCS	Often	0.936	Case Management Each 15 Mins
DP04	G0480	Procedure	HCPCS	Often	0.922	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP04	A0100	Procedure	HCPCS	Often	0.907	Nonemergency Transportation; Taxi
DP04	C674	Dispensing	Drug Class	Any	0.897	Expectorant Combinations - Other
DP04	C808	Dispensing	Drug Class	Frequent	0.897	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP04	G8484	Procedure	HCPCS	Any	0.874	Flu Immun Not Adm Reason Not Given



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	C221	Dispensing	Drug Class	Frequent	0.867	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP04	H2011	Procedure	HCPCS	Frequent	0.867	Crisis Interven Service Per 15 Min
DP04	82435	Procedure	CPT	Any	0.846	Assay Of Blood Chloride
DP04	C996	Dispensing	Drug Class	Any	0.840	Parenteral Nutrition-Amino Acid, Dextrose And Electrolytes Combination
DP04	T1016	Procedure	HCPCS	Frequent	0.830	Case Management Each 15 Mins
DP04	84155	Procedure	CPT	Any	0.828	Assay Of Protein Serum
DP04	C576	Dispensing	Drug Class	Any	0.819	Diagnostic - Blood Tests
DP04	G8427	Procedure	HCPCS	Frequent	0.808	Elig Clin Doc M Updtd Rec Pt Meds
DP04	R79	Diagnosis	ICD-10-CM	Frequent	0.793	Oth Abnormal Findings Bld Chemistry
DP04	G8783	Procedure	HCPCS	Frequent	0.791	Normal Bp Reading Doc F/U Not Rqr
DP04	82310	Procedure	CPT	Any	0.790	Assay Of Calcium
DP04	E0601	Procedure	HCPCS	Often	0.769	Continuous Pos Airway Pressure Devc
DP04	C858	Dispensing	Drug Class	Often	0.754	Mouth And Throat - Local Anesthetic Mixtures
DP04	82040	Procedure	CPT	Any	0.730	Assay Of Serum Albumin
DP04	82310	Procedure	CPT	Frequent	0.718	Assay Of Calcium
DP04	84295	Procedure	CPT	Any	0.716	Assay Of Serum Sodium
DP04	0DB64Z3	Procedure	ICD-10-PCS	Any	0.713	Excision Stomach Perq Endo Vertical
DP04	C376	Dispensing	Drug Class	Often	0.713	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -
DP04	E039	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E042	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E1140	Diagnosis	ICD-9-CM	Often	0.713	No Description Available
DP04	E1142	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E1165	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E282	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E6601	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	E785	Diagnosis	ICD-9-CM	Any	0.713	No Description Available
DP04	G8417	Procedure	HCPCS	Frequent	0.713	Bmi Doc Abv Nml Param & F/U Pln Doc
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.713	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.713	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.713	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	S9083	Procedure	HCPCS	Frequent	0.713	Global Fee Urgent Care Centers
DP04	Z51	Diagnosis	ICD-10-CM	Frequent	0.713	Encounter For Other Aftercare
DP04	84132	Procedure	CPT	Any	0.698	Assay Of Serum Potassium

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	J10	Diagnosis	ICD-10-CM	Frequent	0.695	Flu D/T Oth Id Influenza Virus
DP04	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.674	Repair Perineum Skin Ext Approach
DP04	E1122	Diagnosis	ICD-9-CM	Any	0.674	No Description Available
DP04	G8482	Procedure	HCPCS	Any	0.674	Influenza Immun Admin/Prev Recv
DP04	R69	Diagnosis	ICD-10-CM	Often	0.673	Illness Unspecified
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.648	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	C169	Dispensing	Drug Class	Frequent	0.617	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP04	82374	Procedure	CPT	Frequent	0.609	Assay Blood Carbon Dioxide
DP04	82435	Procedure	CPT	Frequent	0.609	Assay Of Blood Chloride
DP04	E119	Diagnosis	ICD-9-CM	Any	0.607	No Description Available
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.607	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	C158	Dispensing	Drug Class	Often	0.600	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.595	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	R73	Diagnosis	ICD-10-CM	Frequent	0.595	Elevated Blood Glucose Level
DP04	G8427	Procedure	HCPCS	Any	0.592	Elig Clin Doc M Updtd Rec Pt Meds
DP04	G8484	Procedure	HCPCS	Frequent	0.587	Flu Immun Not Adm Reason Not Given
DP04	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.579	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	A4253	Procedure	HCPCS	Often	0.568	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	C1173	Dispensing	Drug Class	Frequent	0.568	Unclassified Drug Products
DP04	C158	Dispensing	Drug Class	Frequent	0.568	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP04	D7240	Procedure	HCPCS	Any	0.558	Removal Impacted Tooth - Cmpl Bony
DP04	84295	Procedure	CPT	Frequent	0.551	Assay Of Serum Sodium
DP04	E55	Diagnosis	ICD-10-CM	Frequent	0.551	Vitamin D Deficiency
DP04	S9083	Procedure	HCPCS	Any	0.550	Global Fee Urgent Care Centers
DP04	84075	Procedure	CPT	Any	0.527	Assay Alkaline Phosphatase
DP04	C158	Dispensing	Drug Class	Any	0.520	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP04	C451	Dispensing	Drug Class	Any	0.520	Dental Product - Dental Aids
DP04	C674	Dispensing	Drug Class	Frequent	0.520	Expectorant Combinations - Other
DP04	82247	Procedure	CPT	Any	0.516	Bilirubin Total
DP04	J3490	Procedure	HCPCS	Frequent	0.500	Unclassified Drugs
DP04	84132	Procedure	CPT	Frequent	0.491	Assay Of Serum Potassium
DP04	C479	Dispensing	Drug Class	Frequent	0.491	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP04	E0601	Procedure	HCPCS	Frequent	0.491	Continuous Pos Airway Pressure Devc



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	Q3014	Procedure	HCPCS	Often	0.491	Telehealth Orig Site Facility Fee
DP04	N89	Diagnosis	ICD-10-CM	Frequent	0.489	Oth Noninflammatory D/O Vagina
DP04	R05	Diagnosis	ICD-10-CM	Frequent	0.489	Cough
DP04	H0031	Procedure	HCPCS	Any	0.479	Mental Health Assess Non-Physician
DP05	C674	Dispensing	Drug Class	Frequent	1.292	Expectorant Combinations - Other
DP05	G0283	Procedure	HCPCS	Frequent	1.273	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	C1081	Dispensing	Drug Class	Frequent	1.106	Rifamycins And Related Derivative Antibiotics
DP05	C768	Dispensing	Drug Class	Frequent	1.106	Insulin-Like Growth Factor-1 (Igf-1)
DP05	10D00Z1	Procedure	ICD-10-PCS	Any	0.906	Extraction Poc Low Open
DP05	3E033VJ	Procedure	ICD-10-PCS	Any	0.906	Intro Oth Hormone Periph Vn Perq
DP05	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.906	Robotic Asstd Proc Trunk Perq Endo
DP05	C691	Dispensing	Drug Class	Often	0.906	Folate Antagonist Antibiotics
DP05	0SG00AJ	Procedure	ICD-10-PCS	Any	0.886	Fusion Lv Joint If Post Appr Ac Opn
DP05	N95	Diagnosis	ICD-10-CM	Frequent	0.872	Menopausal Oth Perimenopausal D/O
DP05	D8670	Procedure	HCPCS	Frequent	0.847	Periodic Orthodontic Tx Visit
DP05	G0283	Procedure	HCPCS	Often	0.829	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	G9903	Procedure	HCPCS	Frequent	0.812	Pt Scr Tob Use & Id As Tob Non-User
DP05	G0481	Procedure	HCPCS	Frequent	0.788	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	Z80	Diagnosis	ICD-10-CM	Frequent	0.739	Fam Hx Primary Malignant Neoplasm
DP05	J3420	Procedure	HCPCS	Frequent	0.704	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP05	A7037	Procedure	HCPCS	Frequent	0.694	Tubing Used W/Pos Arway Press Devc
DP05	C1008	Dispensing	Drug Class	Any	0.675	Pharmaceutical Adjuvant - Capsule Excipients
DP05	Q0091	Procedure	HCPCS	Any	0.673	Scr Pap Smer; Obtain Prep&Convy-Lab
DP05	C224	Dispensing	Drug Class	Frequent	0.663	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP05	D4910	Procedure	HCPCS	Frequent	0.663	Periodontal Maintenance
DP05	J1030	Procedure	HCPCS	Any	0.647	Inj Methylprdnisalone Actat 40 Mg
DP05	97112	Procedure	CPT	Frequent	0.645	Neuromuscular Reeducation
DP05	G0463	Procedure	HCPCS	Frequent	0.635	Hos Op Clin Visit Assess & Mgmt Pt
DP05	C261	Dispensing	Drug Class	Frequent	0.618	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP05	C669	Dispensing	Drug Class	Frequent	0.618	Emergency Contraceptive Combinations
DP05	R35	Diagnosis	ICD-10-CM	Frequent	0.618	Polyuria
DP05	D8670	Procedure	HCPCS	Often	0.616	Periodic Orthodontic Tx Visit
DP05	S0620	Procedure	HCPCS	Any	0.610	Routine Ophth Ex W/Refrac; New Pt

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C168	Dispensing	Drug Class	Frequent	0.606	Antidepressant Combinations
DP05	4A023N7	Procedure	ICD-10-PCS	Any	0.598	Measur Card Sampl Press Lt Heart Pc
DP05	C394	Dispensing	Drug Class	Frequent	0.580	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP05	C669	Dispensing	Drug Class	Often	0.569	Emergency Contraceptive Combinations
DP05	E29	Diagnosis	ICD-10-CM	Often	0.561	Testicular Dysfunction
DP05	96372	Procedure	CPT	Frequent	0.559	Ther/Proph/Diag Inj Sc/Im
DP05	A7037	Procedure	HCPCS	Any	0.549	Tubing Used W/Pos Arway Press Devc
DP05	J1100	Procedure	HCPCS	Any	0.543	Inj Dexmethoson Sodim Phosphate 1 Mg
DP05	84481	Procedure	CPT	Any	0.541	Free Assay (Ft-3)
DP05	C100	Dispensing	Drug Class	Often	0.533	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP05	C691	Dispensing	Drug Class	Any	0.524	Folate Antagonist Antibiotics
DP05	C6	Dispensing	Drug Class	Frequent	0.522	Acne Therapy Topical
DP05	C371	Dispensing	Drug Class	Frequent	0.519	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular Sympathomimetics
DP05	0D9670Z	Procedure	ICD-10-PCS	Any	0.500	Drain Stomach Drain Devc Nat/Art Op
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	0.500	Delivery Products Of Conception Ext
DP05	A7032	Procedure	HCPCS	Frequent	0.500	Cushn Nasal Mask Intf Repl Only Ea
DP05	C1149	Dispensing	Drug Class	Frequent	0.500	Anesthetics
DP05	C337	Dispensing	Drug Class	Frequent	0.500	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological - Local
DP05	C337	Dispensing	Drug Class	Often	0.500	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological - Local
DP05	C42	Dispensing	Drug Class	Often	0.500	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C64	Dispensing	Drug Class	Frequent	0.500	Androgens
DP05	C679	Dispensing	Drug Class	Frequent	0.500	Factor Ix Preparations
DP05	C691	Dispensing	Drug Class	Frequent	0.500	Folate Antagonist Antibiotics
DP05	C977	Dispensing	Drug Class	Frequent	0.500	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP05	G0481	Procedure	HCPCS	Any	0.500	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	C1033	Dispensing	Drug Class	Frequent	0.481	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP05	D8670	Procedure	HCPCS	Any	0.474	Periodic Orthodontic Tx Visit
DP05	D1351	Procedure	HCPCS	Any	0.465	Sealant - Per Tooth
DP05	D2792	Procedure	HCPCS	Any	0.461	Crown - Full Cast Noble Metal
DP05	96372	Procedure	CPT	Any	0.456	Ther/Proph/Diag Inj Sc/Im
DP05	G8483	Procedure	HCPCS	Any	0.454	Flu Immun Not Admin Rsn Doc Clin
DP05	C175	Dispensing	Drug Class	Frequent	0.444	Antidiarrheal - Bismuth Agents
DP05	C168	Dispensing	Drug Class	Often	0.440	Antidepressant Combinations

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C221	Dispensing	Drug Class	Any	0.438	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP05	C100	Dispensing	Drug Class	Frequent	0.436	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP05	N95	Diagnosis	ICD-10-CM	Any	0.434	Menopausal Oth Perimenopausal D/O
DP05	J2550	Procedure	HCPCS	Any	0.426	Injection Promethazine Hcl To 50 Mg
DP05	99244	Procedure	CPT	Any	0.425	Office Consultation
DP05	R63	Diagnosis	ICD-10-CM	Any	0.423	Sx Signs Concerning Food FI Intake
DP05	D2391	Procedure	HCPCS	Any	0.416	Resin Compos - 1 Surface Posterior
DP05	Z80	Diagnosis	ICD-10-CM	Any	0.415	Fam Hx Primary Malignant Neoplasm
DP05	A7030	Procedure	HCPCS	Frequent	0.413	Full Fce Mask Pos Arway Prss Dev Ea
DP05	C451	Dispensing	Drug Class	Frequent	0.413	Dental Product - Dental Aids
DP05	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.413	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	J0696	Procedure	HCPCS	Any	0.412	Inj Ceftriaxone Sodium Per 250 Mg
DP05	C137	Dispensing	Drug Class	Frequent	0.407	Anticonvulsant - Gaba Analogs / Postherpetic Neuralgia Agents
DP05	E29	Diagnosis	ICD-10-CM	Any	0.404	Testicular Dysfunction
DP05	R92	Diagnosis	ICD-10-CM	Any	0.403	Abn Inconclusive Find Dx Imag Brst
DP05	D2392	Procedure	HCPCS	Any	0.401	Resin Compos - 2 Surfaces Posterior
DP05	84403	Procedure	CPT	Any	0.400	Assay Of Total Testosterone
DP05	C1141	Dispensing	Drug Class	Frequent	0.395	Wound Care - Dressings
DP05	M47	Diagnosis	ICD-10-CM	Frequent	0.395	Spondylosis
DP05	R20	Diagnosis	ICD-10-CM	Frequent	0.395	Disturbances Of Skin Sensation
DP05	U0005	Procedure	HCPCS	Frequent	0.394	Ia Det Na; Sars-Cov-2 Covid-19
DP05	D2150	Procedure	HCPCS	Any	0.390	Amalgam-Two Surfaces Primary/Perm
DP05	C169	Dispensing	Drug Class	Often	0.389	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	97140	Procedure	CPT	Frequent	0.388	Manual Therapy 1/> Regions
DP05	99211	Procedure	CPT	Any	0.375	Office O/P Est Minimal Prob
DP05	3074F	Procedure	CPT	Frequent	0.375	Syst Bp Lt 130 Mm Hg
DP05	1036F	Procedure	CPT	Frequent	0.370	Tobacco Non-User
DP05	A7039	Procedure	HCPCS	Any	0.367	Fltr Non Dispbl Pos Arway Prss Devc
DP05	C104	Dispensing	Drug Class	Often	0.367	Antiarrhythmic - Class I
DP05	C337	Dispensing	Drug Class	Any	0.367	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological - Local
DP05	G0480	Procedure	HCPCS	Frequent	0.367	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP05	G8483	Procedure	HCPCS	Frequent	0.367	Flu Immun Not Admin Rsn Doc Clin
DP05	G8417	Procedure	HCPCS	Frequent	0.365	Bmi Doc Abv Nml Param & F/U Pln Doc

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C104	Dispensing	Drug Class	Any	0.360	Antiarrhythmic - Class I
DP05	C815	Dispensing	Drug Class	Any	0.356	Minerals And Electrolytes - Calcium And Combinations / Minerals And Electrolytes -
DP05	97014	Procedure	CPT	Frequent	0.351	Electric Stimulation Therapy
DP05	C61	Dispensing	Drug Class	Frequent	0.347	Analgesic Or Antipyretic Non-Opioid And Combinations
DP05	C858	Dispensing	Drug Class	Frequent	0.347	Mouth And Throat - Local Anesthetic Mixtures
DP06	0BH17EZ	Procedure	ICD-10-PCS	Any	1.442	Insrt Et Aw Trachea Nat/Art Opening
DP06	02H63JZ	Procedure	ICD-10-PCS	Any	1.219	Insert Pacemkr Lead Rt Atrium Perq
DP06	02HK3JZ	Procedure	ICD-10-PCS	Any	1.219	Ins Pacemakr Lead Rt Ventricle Perq
DP06	0JH606Z	Procedure	ICD-10-PCS	Any	1.219	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP06	B215YZZ	Procedure	ICD-10-PCS	Any	1.219	Fluoroscopy Lt Heart Other Contrast
DP06	02HV33Z	Procedure	ICD-10-PCS	Any	1.114	Insrt Infus Devc Sup Vena Cava Perq
DP06	8E0ZXY6	Procedure	ICD-10-PCS	Any	1.083	Isolation
DP06	03CLOZZ	Procedure	ICD-10-PCS	Any	0.931	Extirpat Matter Left Ica Open Appr
DP06	0DB98ZX	Procedure	ICD-10-PCS	Any	0.931	Ex Duodenum Nat/Art Opening Endo Dx
DP06	0DJ8ZZ	Procedure	ICD-10-PCS	Any	0.931	Inspection Lw Intestinal Tract Endo
DP06	0DNU4ZZ	Procedure	ICD-10-PCS	Any	0.931	Release Omentum Percutaneous Endo
DP06	0SG3071	Procedure	ICD-10-PCS	Any	0.931	Fusion Ls Joint Auto Sub Post Pc Op
DP06	0UT20ZZ	Procedure	ICD-10-PCS	Any	0.931	Resection Bilateral Ovaries Open
DP06	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.931	Resection Bilat Fallopian Tubes Op
DP06	0W9930Z	Procedure	ICD-10-PCS	Any	0.931	Drainage Rt Pleural Cav Drn Devc Pc
DP06	B213YZZ	Procedure	ICD-10-PCS	Any	0.931	Fluoro Mx Cor Art Bp Gft Oth Cont
DP06	B24BZZ4	Procedure	ICD-10-PCS	Any	0.931	Usg Heart Aorta Transesophageal
DP06	009U3ZX	Procedure	ICD-10-PCS	Any	0.860	Drainage Spinal Canal Perq Appr Dx
DP06	05HY33Z	Procedure	ICD-10-PCS	Any	0.860	Insrt Infus Devc Up Vn Perq Appr
DP06	0LS40ZZ	Procedure	ICD-10-PCS	Any	0.860	Reposition Lt Upper Arm Tendon Open
DP06	0SG1071	Procedure	ICD-10-PCS	Any	0.860	Fus 2/> Lv Jnt Auto Sub Post Pc Op
DP06	0SG30AJ	Procedure	ICD-10-PCS	Any	0.860	Fusion Ls Jnt If Post Appr Ac Open
DP06	3E033GC	Procedure	ICD-10-PCS	Any	0.860	Intro Oth Tx Sbstnc Periph Vn Perq
DP06	B2121ZZ	Procedure	ICD-10-PCS	Any	0.860	Fluoro Sngl Cabg Low Osmolar Cont
DP06	B2181ZZ	Procedure	ICD-10-PCS	Any	0.860	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP06	C158	Dispensing	Drug Class	Frequent	0.823	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	0SRD0J9	Procedure	ICD-10-PCS	Any	0.814	Repl L Knee Joint Synth Cmentd Open
DP06	5A2204Z	Procedure	ICD-10-PCS	Any	0.814	Restoration Cardiac Rhythm Single

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	027034Z	Procedure	ICD-10-PCS	Any	0.749	Dil Ca 1 Art Rx-Elut II Devc Perq
DP06	0BJ08ZZ	Procedure	ICD-10-PCS	Any	0.749	Inspection Tbt Nat/Art Opening Endo
DP06	Q9966	Procedure	HCPCS	Frequent	0.702	Locm 200-299 Mg/MI I Conc Per MI
DP06	5A1221Z	Procedure	ICD-10-PCS	Any	0.680	Performance Cardiac Output Cont
DP06	G8731	Procedure	HCPCS	Frequent	0.660	Pn Asmt Tool Doc Neg No F/U Pln Rqr
DP06	B211YZZ	Procedure	ICD-10-PCS	Any	0.644	Fluoro Multiple Cor Art Oth Cont
DP06	02RF38Z	Procedure	ICD-10-PCS	Any	0.637	Repl Aortic Valv Zooplstc Tiss Perq
DP06	G8730	Procedure	HCPCS	Frequent	0.589	Pain Assess Pos Tool F/U Plan Doc
DP06	0SG0071	Procedure	ICD-10-PCS	Any	0.573	Fusion Lv Joint Auto Sub Post Pc Op
DP06	3E0F7GC	Procedure	ICD-10-PCS	Any	0.573	Intro Oth Tx Substnc Resp Tract
DP06	C971	Dispensing	Drug Class	Any	0.573	Ophthalmic Decongestant Combinations
DP06	XW033E5	Procedure	ICD-10-PCS	Any	0.573	Intr Remdesivir Periph Vn Perc Nt5
DP06	C971	Dispensing	Drug Class	Frequent	0.558	Ophthalmic Decongestant Combinations
DP06	02100Z9	Procedure	ICD-10-PCS	Any	0.526	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP06	02583ZZ	Procedure	ICD-10-PCS	Any	0.526	Destruction Conduction Mech Perq
DP06	02703ZZ	Procedure	ICD-10-PCS	Any	0.526	Dilation Coronary Artery 1 Art Perq
DP06	02K83ZZ	Procedure	ICD-10-PCS	Any	0.526	Map Conduction Mechanism Perq Appr
DP06	02L70CK	Procedure	ICD-10-PCS	Any	0.526	Occlusion Laa W/Extralum Devc Open
DP06	05HB33Z	Procedure	ICD-10-PCS	Any	0.526	Ins Infus Dev Rt Basilic Vn Perq
DP06	0B978ZZ	Procedure	ICD-10-PCS	Any	0.526	Drn Lt Main Bronch Nat/Art Op Endo
DP06	0DBH8ZX	Procedure	ICD-10-PCS	Any	0.526	Excision Cecum Nat/Art Op Endo Dx
DP06	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.526	Extirpatn Matter Cmn Bile Duct Endo
DP06	0JH632Z	Procedure	ICD-10-PCS	Any	0.526	Ins Mon Dev Chest Subq Tiss F Perq
DP06	0RT30ZZ	Procedure	ICD-10-PCS	Any	0.526	Resect Cerv Vert Disc Opn Approach
DP06	0SG10AJ	Procedure	ICD-10-PCS	Any	0.526	Fus 2/> Lv Jnt If Post Appr Ac Open
DP06	0SRC069	Procedure	ICD-10-PCS	Any	0.526	Repl Rt Kj Ox Zr Poly Ss Cem Open
DP06	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.526	Inspection Bladder Nat/Art Opn Endo
DP06	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.526	Resection Uterus Open
DP06	0W3P8ZZ	Procedure	ICD-10-PCS	Any	0.526	Control Gastrointest Nat/Art Endo
DP06	4A023FZ	Procedure	ICD-10-PCS	Any	0.526	Measurement Cardiac Rhythm Perq
DP06	B218YZZ	Procedure	ICD-10-PCS	Any	0.526	Fluoro Lt Int Mam Bypg Gft Oth Cont
DP06	B221Z2Z	Procedure	ICD-10-PCS	Any	0.526	Ct Scan Mx Ca Ivasc Opt Coherence
DP06	C333	Dispensing	Drug Class	Frequent	0.507	Antipsychotic - Dopamine Antagonists

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	84481	Procedure	CPT	Any	0.467	Free Assay (Ft-3)
DP06	G8978	Procedure	HCPCS	Frequent	0.467	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	0T768DZ	Procedure	ICD-10-PCS	Any	0.455	Dilat Rt Ureter II Nat/Art Op Endo
DP06	G9899	Procedure	HCPCS	Frequent	0.455	Scr Dx F Dgtl/Dbt Mammo Rslt D&Rev
DP06	G1004	Procedure	HCPCS	Frequent	0.447	Cdsm Ndsc Defined Medicare Auc Prog
DP06	C215	Dispensing	Drug Class	Frequent	0.445	Antihyperlipidemic - Atp-Citrate Lyase (Acly) Inhibitor
DP06	G8978	Procedure	HCPCS	Any	0.438	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C1017	Dispensing	Drug Class	Frequent	0.435	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	C158	Dispensing	Drug Class	Often	0.435	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	K1034	Procedure	HCPCS	Frequent	0.428	No Description Available
DP06	G8979	Procedure	HCPCS	Any	0.422	Mob: Walk Mov Around Fcn Lim Goal
DP06	C217	Dispensing	Drug Class	Often	0.404	Antihyperlipidemic - Bile Acid Sequestrants
DP06	C1119	Dispensing	Drug Class	Frequent	0.401	Uterine Relaxant - Beta-Adrenergic Agents
DP06	G8979	Procedure	HCPCS	Frequent	0.397	Mob: Walk Mov Around Fcn Lim Goal
DP06	C1887	Procedure	HCPCS	Any	0.395	Catheter Guiding
DP06	B246ZZZ	Procedure	ICD-10-PCS	Any	0.390	Ultrasonography Right & Left Heart
DP06	C1115	Dispensing	Drug Class	Any	0.388	Urinary Retention Therapy - Parasympathomimetic Agents
DP06	C968	Dispensing	Drug Class	Any	0.377	Ophthalmic Antifungals
DP06	C1119	Dispensing	Drug Class	Often	0.375	Uterine Relaxant - Beta-Adrenergic Agents
DP06	C147	Dispensing	Drug Class	Frequent	0.368	Anticonvulsant - Potassium Channel Opener
DP06	C970	Dispensing	Drug Class	Frequent	0.366	Ophthalmic Antivirals
DP06	C221	Dispensing	Drug Class	Frequent	0.361	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP06	C44	Dispensing	Drug Class	Frequent	0.359	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	G8942	Procedure	HCPCS	Often	0.359	Fnc Outcm Asmt Doc Prev 30 D&Cr Pln
DP06	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.349	Resect Gallbladder Perq Endo Appr
DP06	02L73DK	Procedure	ICD-10-PCS	Any	0.344	Occlusion Laa W/Intralum Devc Perq
DP06	0T778DZ	Procedure	ICD-10-PCS	Any	0.344	Dil Lt Ureter II Nat/Art Opng Endo
DP06	5A1D70Z	Procedure	ICD-10-PCS	Any	0.344	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP06	C215	Dispensing	Drug Class	Any	0.344	Antihyperlipidemic - Atp-Citrate Lyase (Acly) Inhibitor
DP06	N/A	Procedure	ICD-10-PCS	1st Quartile	0.344	Utilization Of All ICD-10-Pcs Procedure Codes
DP06	G8907	Procedure	HCPCS	Frequent	0.343	Pt Doc No:Brn;Wrg Evnt;/Trf/Adm D/C
DP06	90653	Procedure	CPT	Any	0.341	liv Adjuvant Vaccine Im
DP06	C423	Dispensing	Drug Class	Any	0.339	Choleretics

**Appendix D. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	N/A	Procedure	ICD-10-PCS	1st Quartile	0.337	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP06	G8950	Procedure	HCPCS	Frequent	0.334	Prehtn/Htn Bp Doc & Indicat F/U Doc
DP06	86140	Procedure	CPT	Frequent	0.333	C-Reactive Protein
DP06	C110	Dispensing	Drug Class	Frequent	0.329	Antiarrhythmic - Class Iv / Calcium Channel Blockers
DP06	82550	Procedure	CPT	Any	0.326	Assay Of Ck (Cpk)
DP06	C1017	Dispensing	Drug Class	Often	0.325	Pharmaceutical Adjuvant - Liquid Vehicles

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st (≤ 25th), 2nd (>25th but ≤50th), 3rd (>50th but ≤75th), and 4th (>75th).



**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	0D9670Z	Procedure	ICD-10-PCS	Any	3.181	Drain Stomach Drain Devc Nat/Art Op
DP01	0J9P0ZZ	Procedure	ICD-10-PCS	Any	3.181	Drn Lt Low Leg Subq Tiss Fasc Open
DP01	0KQM0ZZ	Procedure	ICD-10-PCS	Any	2.488	Repair Perineum Muscle Open
DP01	8E0WXBZ	Procedure	ICD-10-PCS	Any	2.488	Computer Assisted Proc Trunk Region
DP01	7809	Diagnosis	ICD-9-CM	Frequent	1.795	Other General Symptoms
DP01	0DBH8ZX	Procedure	ICD-10-PCS	Any	1.795	Excision Cecum Nat/Art Op Endo Dx
DP01	0FT44ZZ	Procedure	ICD-10-PCS	Any	1.795	Resect Gallbladder Perq Endo Appr
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.795	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	C145	Dispensing	Drug Class	Frequent	1.746	Anticonvulsant - Phenyltriazine Derivatives
DP01	C151	Dispensing	Drug Class	Often	1.702	Anticonvulsant - Sulfonamide Derivatives
DP01	0DB78ZX	Procedure	ICD-10-PCS	Any	1.572	Exc Stom Pylorus Nat/Art Op Endo Dx
DP01	0DBB8ZX	Procedure	ICD-10-PCS	Any	1.389	Exc Ileum Via Nat/Art Op Endo Dx
DP01	C151	Dispensing	Drug Class	Frequent	1.262	Anticonvulsant - Sulfonamide Derivatives
DP01	C1108	Dispensing	Drug Class	Frequent	1.238	Toxoid Vaccines
DP01	0DBL8ZX	Procedure	ICD-10-PCS	Any	1.235	Ex Trns Colon Nat Or Art Op Endo Dx
DP01	10E0XZZ	Procedure	ICD-10-PCS	Any	1.235	Delivery Products Of Conception Ext
DP01	C169	Dispensing	Drug Class	Frequent	1.226	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP01	G8427	Procedure	HCPCS	Frequent	1.188	Elig Clin Doc M Updtd Rec Pt Meds
DP01	C169	Dispensing	Drug Class	Often	1.163	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP01	C1108	Dispensing	Drug Class	Often	1.109	Toxoid Vaccines
DP01	00NY0ZZ	Procedure	ICD-10-PCS	Any	1.102	Release Lumbar Spinal Cord Open
DP01	C168	Dispensing	Drug Class	Frequent	1.075	Antidepressant Combinations
DP01	G2023	Procedure	HCPCS	Frequent	1.027	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	A4232	Procedure	HCPCS	Any	1.009	Syringe Ndle Ext Insulin Pump Sterl
DP01	7809	Diagnosis	ICD-9-CM	Often	0.984	Other General Symptoms
DP01	G8427	Procedure	HCPCS	Any	0.933	Elig Clin Doc M Updtd Rec Pt Meds
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.930	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	G8510	Procedure	HCPCS	Any	0.927	Scr Depr Doc Neg A F/U Plan Not Rqr
DP01	S0281	Procedure	HCPCS	Any	0.903	Med Home Program Care Coord Maint
DP01	A4232	Procedure	HCPCS	Often	0.891	Syringe Ndle Ext Insulin Pump Sterl
DP01	A9277	Procedure	HCPCS	Any	0.883	Transmtr; Ext Intrstl Cont Glu Mon
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	0.878	Drainage Spinal Canal Perq Appr Dx
DP01	30233N1	Procedure	ICD-10-PCS	Any	0.878	Tran Nauto Red Bld Cll Periph Vn Pc
DP01	C168	Dispensing	Drug Class	Often	0.875	Antidepressant Combinations



**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	C1108	Dispensing	Drug Class	Any	0.855	Toxoid Vaccines
DP01	S0281	Procedure	HCPCS	Often	0.833	Med Home Program Care Coord Maint
DP01	A4230	Procedure	HCPCS	Often	0.832	Infus Set Ext Insulin Pump Nonndle
DP01	GZHZZZ	Procedure	ICD-10-PCS	Any	0.830	Group Psychotherapy
DP01	C168	Dispensing	Drug Class	Any	0.813	Antidepressant Combinations
DP01	A0429	Procedure	HCPCS	Any	0.802	Amb Service Bls Emergency Transport
DP01	C100	Dispensing	Drug Class	Frequent	0.802	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.783	Ex Duodenum Nat/Art Opening Endo Dx
DP01	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.783	Ex Sig Colon Via Nat/Art Op Endo Dx
DP01	J2550	Procedure	HCPCS	Any	0.744	Injection Promethazine Hcl To 50 Mg
DP01	G0283	Procedure	HCPCS	Frequent	0.743	E-Stim 1/>Not Wnd Care Part Tx Plan
DP01	J7512	Procedure	HCPCS	Any	0.738	Pdn Immed Rlse/Delay Rlse Oral 1 Mg
DP01	G0283	Procedure	HCPCS	Often	0.728	E-Stim 1/>Not Wnd Care Part Tx Plan
DP01	C338	Dispensing	Drug Class	Frequent	0.711	Antithyroid Agents
DP01	S9083	Procedure	HCPCS	Any	0.698	Global Fee Urgent Care Centers
DP01	0DB38ZX	Procedure	ICD-10-PCS	Any	0.696	Ex Low Esoph Via Nat/Art Op Endo Dx
DP01	0DBP8ZX	Procedure	ICD-10-PCS	Any	0.696	Ex Rec Via Nat Or Art Open Endo Dx
DP01	G0008	Procedure	HCPCS	Any	0.694	Administration Influenza Virus Vacc
DP01	A4230	Procedure	HCPCS	Any	0.686	Infus Set Ext Insulin Pump Nonndle
DP01	G2023	Procedure	HCPCS	Any	0.660	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	Z03	Diagnosis	ICD-10-CM	Any	0.637	Enc Med Obs Susp Dz Cond Ruled Out
DP01	87502	Procedure	CPT	Any	0.606	Influenza Dna Amp Probe
DP01	99215	Procedure	CPT	Frequent	0.596	Office O/P Est Hi 40-54 Min
DP01	C479	Dispensing	Drug Class	Any	0.586	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP01	C99	Dispensing	Drug Class	Any	0.584	Antianxiety Agent - Benzodiazepines / Anticonvulsant - Benzodiazepines
DP01	C100	Dispensing	Drug Class	Any	0.566	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP01	J0702	Procedure	HCPCS	Any	0.556	Inj Betamethasone Ac & Phos 3 Mg
DP01	C145	Dispensing	Drug Class	Often	0.549	Anticonvulsant - Phenyltriazine Derivatives
DP01	7809	Diagnosis	ICD-9-CM	Any	0.542	Other General Symptoms
DP01	J1030	Procedure	HCPCS	Any	0.536	Inj Methylprdnisalone Actat 40 Mg
DP01	J1170	Procedure	HCPCS	Any	0.533	Injection Hydromorphone Up To 4 Mg
DP01	C147	Dispensing	Drug Class	Frequent	0.532	Anticonvulsant - Potassium Channel Opener
DP01	87651	Procedure	CPT	Any	0.527	Strep A Dna Amp Probe
DP01	J7613	Procedure	HCPCS	Any	0.526	Albuterol Inhal Non-Cp U Dose 1 Mg

**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	S0119	Procedure	HCPCS	Any	0.518	Ondansetron Oral 4 Mg
DP01	J0696	Procedure	HCPCS	Any	0.516	Inj Ceftriaxone Sodium Per 250 Mg
DP01	U0004	Procedure	HCPCS	Any	0.506	2019-Ncov Coronavirus/Covid-19 Any T
DP01	C151	Dispensing	Drug Class	Any	0.499	Anticonvulsant - Sulfonamide Derivatives
DP01	C977	Dispensing	Drug Class	Any	0.495	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP01	C137	Dispensing	Drug Class	Any	0.491	Anticonvulsant - Gaba Analogs / Postherpetic Neuralgia Agents
DP01	85018	Procedure	CPT	Any	0.477	Hemoglobin
DP01	F84	Diagnosis	ICD-10-CM	Frequent	0.474	Pervasive Developmental Disorders
DP01	C1173	Dispensing	Drug Class	Frequent	0.470	Unclassified Drug Products
DP01	C5	Dispensing	Drug Class	Any	0.469	Acne Therapy Systemic / Tetracycline Antibiotics And Combinations
DP01	C808	Dispensing	Drug Class	Any	0.468	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP01	G44	Diagnosis	ICD-10-CM	Frequent	0.468	Other Headache Syndromes
DP01	G0283	Procedure	HCPCS	Any	0.466	E-Stim 1/>Not Wnd Care Part Tx Plan
DP01	A0425	Procedure	HCPCS	Any	0.463	Ground Mileage Per Statute Mile
DP01	A4617	Procedure	HCPCS	Any	0.463	Mouthpiece
DP01	C835	Dispensing	Drug Class	Frequent	0.463	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP01	R45	Diagnosis	ICD-10-CM	Frequent	0.460	Sx Signs Inlv Emotional State
DP01	C338	Dispensing	Drug Class	Any	0.454	Antithyroid Agents
DP01	97140	Procedure	CPT	Frequent	0.451	Manual Therapy 1/> Regions
DP01	C174	Dispensing	Drug Class	Frequent	0.451	Antidiarrheal - Antiperistaltic Agents
DP01	C100	Dispensing	Drug Class	Often	0.445	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP01	C158	Dispensing	Drug Class	Frequent	0.443	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP01	A9575	Procedure	HCPCS	Any	0.438	Inj Gadoterate Meglumine 0.1 Ml
DP01	L3000	Procedure	HCPCS	Any	0.437	Ft Insrt Mold Ucb Type Berkly Shell
DP01	A9276	Procedure	HCPCS	Often	0.434	Sensor; Invsv Intrstl Glu Mon Sys
DP01	J3301	Procedure	HCPCS	Any	0.433	Inj Triamcinolon Acetonid Nos 10 Mg
DP01	C338	Dispensing	Drug Class	Often	0.428	Antithyroid Agents
DP01	Q4049	Procedure	HCPCS	Any	0.423	Finger Splint Static
DP01	R42	Diagnosis	ICD-10-CM	Frequent	0.418	Dizziness And Giddiness
DP01	A9585	Procedure	HCPCS	Any	0.417	Injection Gadobutrol 0.1 Ml
DP01	A9274	Procedure	HCPCS	Any	0.415	Ext Amb Insulin Del Sys Disposbl Ea
DP01	L1902	Procedure	HCPCS	Any	0.412	Ank Orth Ank Gauntlt/Sim Prefab Ots
DP02	D8080	Procedure	HCPCS	Any	2.744	Comp Orthodont Tx Adoles Dentition
DP02	C720	Dispensing	Drug Class	Any	1.871	Glycopeptide Antibiotics

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	G0283	Procedure	HCPCS	Often	1.799	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	C720	Dispensing	Drug Class	Frequent	1.778	Glycopeptide Antibiotics
DP02	C174	Dispensing	Drug Class	Frequent	1.714	Antidiarrheal - Antiperistaltic Agents
DP02	95117	Procedure	CPT	Frequent	1.687	Immunotherapy Injections
DP02	R00	Diagnosis	ICD-10-CM	Often	1.638	Abnormalities Of Heart Beat
DP02	R42	Diagnosis	ICD-10-CM	Frequent	1.587	Dizziness And Giddiness
DP02	G0283	Procedure	HCPCS	Any	1.558	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	C745	Dispensing	Drug Class	Any	1.476	Hypertrophic Cardiomyopathy Treatment Agents, Ablative
DP02	J0690	Procedure	HCPCS	Any	1.415	Injection Cefazolin Sodium 500 Mg
DP02	K21	Diagnosis	ICD-10-CM	Any	1.399	Gastro-Esophageal Reflux Disease
DP02	C128	Dispensing	Drug Class	Often	1.358	Anticonvulsant - Carbamates
DP02	C386	Dispensing	Drug Class	Often	1.358	Bile Acids
DP02	E0570	Procedure	HCPCS	Any	1.358	Nebulizer With Compressor
DP02	G0283	Procedure	HCPCS	Frequent	1.358	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	J1040	Procedure	HCPCS	Frequent	1.358	Inj Methylprdnisolone Actat 80 Mg
DP02	J7999	Procedure	HCPCS	Any	1.358	Compounded Drug Noc
DP02	L1832	Procedure	HCPCS	Any	1.358	Knee Orthos Immobilzr Adjust Prefab
DP02	Q4038	Procedure	HCPCS	Frequent	1.358	Cast Spl Shrt Leg Cast Adlt Fibrcls
DP02	H52	Diagnosis	ICD-10-CM	Frequent	1.317	Disorders Refraction Accommodation
DP02	C420	Dispensing	Drug Class	Any	1.281	Chelating Agents - Others / Pharmaceutical Adjuvant - Preservatives
DP02	C683	Dispensing	Drug Class	Any	1.245	Factor X Preparations
DP02	C364	Dispensing	Drug Class	Frequent	1.207	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP02	K52	Diagnosis	ICD-10-CM	Any	1.188	Oth & Uns Noninfective Ge & Colitis
DP02	C386	Dispensing	Drug Class	Any	1.175	Bile Acids
DP02	C174	Dispensing	Drug Class	Often	1.163	Antidiarrheal - Antiperistaltic Agents
DP02	C386	Dispensing	Drug Class	Frequent	1.134	Bile Acids
DP02	C423	Dispensing	Drug Class	Often	1.127	Choleretics
DP02	C488	Dispensing	Drug Class	Any	1.099	Dermatological - Antipsoriatic Agents Systemic / Inflammatory Bowel Agent -
DP02	90834	Procedure	CPT	Often	1.063	Psytx W Pt 45 Minutes
DP02	C1106	Dispensing	Drug Class	Any	1.040	Thyroid Hormones And Combinations
DP02	J0702	Procedure	HCPCS	Any	1.001	Inj Betamethasone Ac & Phos 3 Mg
DP02	C394	Dispensing	Drug Class	Any	0.994	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP02	C835	Dispensing	Drug Class	Frequent	0.994	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP02	Z91	Diagnosis	ICD-10-CM	Any	0.994	Personal Risk Factors Nec

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	C1172	Dispensing	Drug Class	Frequent	0.952	Unclassified Drug Products
DP02	C143	Dispensing	Drug Class	Often	0.952	Anticonvulsant - Monosaccharide Derivatives
DP02	C151	Dispensing	Drug Class	Frequent	0.952	Anticonvulsant - Sulfonamide Derivatives
DP02	C151	Dispensing	Drug Class	Often	0.952	Anticonvulsant - Sulfonamide Derivatives
DP02	C168	Dispensing	Drug Class	Frequent	0.952	Antidepressant Combinations
DP02	C261	Dispensing	Drug Class	Frequent	0.952	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP02	C261	Dispensing	Drug Class	Often	0.952	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP02	C337	Dispensing	Drug Class	Frequent	0.952	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological - Local
DP02	C572	Dispensing	Drug Class	Any	0.952	Dextrose And Lactated Ringer'S Solutions / Minerals And Electrolytes - Electrolytes And
DP02	C673	Dispensing	Drug Class	Often	0.952	Estrogens
DP02	E0570	Procedure	HCPCS	Often	0.952	Nebulizer With Compressor
DP02	J0131	Procedure	HCPCS	Any	0.952	Injection Acetaminophen 10 Mg
DP02	M76	Diagnosis	ICD-10-CM	Frequent	0.952	Enthesopathies Low Limb Exclud Foot
DP02	A9276	Procedure	HCPCS	Often	0.945	Sensor; Invsv Intrstl Glu Mon Sys
DP02	C792	Dispensing	Drug Class	Often	0.945	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP02	G43	Diagnosis	ICD-10-CM	Any	0.935	Migraine
DP02	C174	Dispensing	Drug Class	Any	0.919	Antidiarrheal - Antiperistaltic Agents
DP02	M76	Diagnosis	ICD-10-CM	Any	0.909	Enthesopathies Low Limb Exclud Foot
DP02	H60	Diagnosis	ICD-10-CM	Any	0.904	Otitis Externa
DP02	77072	Procedure	CPT	Frequent	0.898	X-Rays For Bone Age
DP02	S06	Diagnosis	ICD-10-CM	Frequent	0.898	Intracranial Injury
DP02	90621	Procedure	CPT	Any	0.894	Menb-Fhbp Vacc 2/3 Dose Im
DP02	C791	Dispensing	Drug Class	Any	0.894	Live Vaccine And Live Virus Formulations / Vaccines - Bacterial
DP02	J7040	Procedure	HCPCS	Any	0.894	Infus Normal Saline Sol Sterile
DP02	R00	Diagnosis	ICD-10-CM	Frequent	0.894	Abnormalities Of Heart Beat
DP02	C977	Dispensing	Drug Class	Any	0.888	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP02	Z87	Diagnosis	ICD-10-CM	Any	0.876	Personal History Oth Diseases&Cond
DP02	S99	Diagnosis	ICD-10-CM	Frequent	0.872	Other & Uns Injuries Ankle & Foot
DP02	C338	Dispensing	Drug Class	Frequent	0.847	Antithyroid Agents
DP02	98941	Procedure	CPT	Frequent	0.840	Chiropract Manj 3-4 Regions
DP02	C17	Dispensing	Drug Class	Any	0.840	Agents To Treat Periodic Paralysis - Carbonic Anhydrase Inhibitors
DP02	C479	Dispensing	Drug Class	Any	0.840	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP02	U0002	Procedure	HCPCS	Any	0.840	2019-Ncov Covid-19 Sars-Cov-2/2019
DP02	M76	Diagnosis	ICD-10-CM	Often	0.819	Enthesopathies Low Limb Exclud Foot

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	96374	Procedure	CPT	Any	0.811	Ther/Proph/Diag Inj Iv Push
DP02	R00	Diagnosis	ICD-10-CM	Any	0.811	Abnormalities Of Heart Beat
DP02	97140	Procedure	CPT	Frequent	0.809	Manual Therapy 1/> Regions
DP02	C104	Dispensing	Drug Class	Frequent	0.798	Antiarrhythmic - Class I
DP02	C192	Dispensing	Drug Class	Any	0.798	Antiemetic - Cannabinoid Type / Cannabis And Cannabinoid Receptor Agonists
DP02	J0171	Procedure	HCPCS	Any	0.798	Inj Adrenalin Epinephrine 0.1 Mg
DP02	J2920	Procedure	HCPCS	Any	0.798	Inj Methylprdnisolon Sodim To 40 Mg
DP02	S63	Diagnosis	ICD-10-CM	Any	0.797	Disloc Sprain Jnt Lig Wrist Hand
DP02	87428	Procedure	CPT	Any	0.782	Sarscov & Inf Vir A&B Ag Ia
DP02	C381	Dispensing	Drug Class	Frequent	0.770	B-Complex Vitamins And Combinations / Vitamins - Water Soluble
DP02	J3010	Procedure	HCPCS	Any	0.768	Injection Fentanyl Citrate 0.1 Mg
DP02	97161	Procedure	CPT	Any	0.756	Pt Eval Low Complex 20 Min
DP02	C4	Dispensing	Drug Class	Frequent	0.751	Acne Therapy Systemic
DP02	J2795	Procedure	HCPCS	Any	0.751	Inj Ropivacaine Hydrochlorid 1 Mg
DP02	M41	Diagnosis	ICD-10-CM	Often	0.751	Scoliosis
DP02	J1200	Procedure	HCPCS	Any	0.722	Inj Diphenhydramine Hcl To 50 Mg
DP02	J2250	Procedure	HCPCS	Any	0.722	Injection Midazolam Hcl Per 1 Mg
DP02	87635	Procedure	CPT	Any	0.707	Sars-Cov-2 Covid-19 Amp Prb
DP02	R06	Diagnosis	ICD-10-CM	Frequent	0.707	Abnormalities Of Breathing
DP02	C104	Dispensing	Drug Class	Any	0.701	Antiarrhythmic - Class I
DP02	C381	Dispensing	Drug Class	Often	0.701	B-Complex Vitamins And Combinations / Vitamins - Water Soluble
DP02	C835	Dispensing	Drug Class	Any	0.701	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions, Concentrated
DP02	99282	Procedure	CPT	Any	0.690	Emergency Dept Visit
DP02	X58	Diagnosis	ICD-10-CM	Any	0.674	Exposure To Other Specified Factors
DP02	A9575	Procedure	HCPCS	Any	0.664	Inj Gadoterate Meglumine 0.1 MI
DP02	C128	Dispensing	Drug Class	Any	0.664	Anticonvulsant - Carbamates
DP02	D9239	Procedure	HCPCS	Any	0.664	Iv Mod Sedat/Analgesia-1St 15 Mins
DP02	J34	Diagnosis	ICD-10-CM	Frequent	0.664	Oth & Uns D/O Nose & Nasal Sinuses
DP02	L08	Diagnosis	ICD-10-CM	Any	0.664	Oth Local Infections Skin Subq Tiss
DP02	M41	Diagnosis	ICD-10-CM	Frequent	0.664	Scoliosis
DP03	N/A	Diagnosis	ICD-9-CM	4rd Quartile	2.766	Utilization Of All ICD-9-Cm Diagnosis Codes
DP03	G9920	Procedure	HCPCS	Frequent	2.270	Screening Performed And Negative
DP03	0HQ9XZZ	Procedure	ICD-10-PCS	Any	2.073	Repair Perineum Skin Ext Approach
DP03	0QS404Z	Procedure	ICD-10-PCS	Any	2.073	Reposition Rt Acetab W If Devc Open

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	0W9930Z	Procedure	ICD-10-PCS	Any	2.073	Drainage Rt Pleural Cav Drn Devc Pc
DP03	0W9930Z	Procedure	ICD-10-PCS	Often	2.073	Drainage Rt Pleural Cav Drn Devc Pc
DP03	OPS044Z	Procedure	ICD-10-PCS	Any	1.668	Repos Strnm W/If Dev Perq Endo
DP03	G9920	Procedure	HCPCS	Any	1.668	Screening Performed And Negative
DP03	V2100	Procedure	HCPCS	Any	1.423	Spher 1 Visn Plano +/- 4.00-Lens
DP03	J2930	Procedure	HCPCS	Any	1.408	Inj Methylprdnisln Sodim To 125 Mg
DP03	03HY32Z	Procedure	ICD-10-PCS	Any	1.380	Insert Monit Devc Upper Artery Perq
DP03	GZ56ZZZ	Procedure	ICD-10-PCS	Any	1.380	Individual Psychotherapy Supportive
DP03	C808	Dispensing	Drug Class	Frequent	1.259	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP03	J0702	Procedure	HCPCS	Any	1.216	Inj Betamethasone Ac & Phos 3 Mg
DP03	10E0XZZ	Procedure	ICD-10-PCS	Any	1.157	Delivery Products Of Conception Ext
DP03	G2212	Procedure	HCPCS	Any	1.157	Prolng Of/Op E&M Bynd Rt;Ea Ad 15 M
DP03	ODTJ4ZZ	Procedure	ICD-10-PCS	Often	1.061	Resection Appendix Perq Endoscopic
DP03	C423	Dispensing	Drug Class	Frequent	1.057	Choleretics
DP03	L4350	Procedure	HCPCS	Any	1.010	Ankle Control Orthos Stirrup Prefab
DP03	A4617	Procedure	HCPCS	Frequent	1.008	Mouthpiece
DP03	009U3ZX	Procedure	ICD-10-PCS	Any	0.974	Drainage Spinal Canal Perq Appr Dx
DP03	ORGA071	Procedure	ICD-10-PCS	Any	0.974	Fus TI Vert Jnt Auto Sub Post Pc Op
DP03	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.974	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	C488	Dispensing	Drug Class	Frequent	0.951	Dermatological - Antipsoriatic Agents Systemic / Inflammatory Bowel Agent -
DP03	L4387	Procedure	HCPCS	Any	0.945	Walking Boot Non-Pneumatic Prefab
DP03	C212	Dispensing	Drug Class	Any	0.939	Antihistamines - 1St Generation
DP03	ODTJ4ZZ	Procedure	ICD-10-PCS	Any	0.894	Resection Appendix Perq Endoscopic
DP03	V2020	Procedure	HCPCS	Any	0.880	Frames Purchases
DP03	G8431	Procedure	HCPCS	Any	0.858	Scr Clin Depr Doc Pos & F/U Pln Doc
DP03	S9088	Procedure	HCPCS	Any	0.845	Services Prov An Urgent Care Center
DP03	S9451	Procedure	HCPCS	Any	0.806	Exercise Classes Non-Phys Per Sess
DP03	J3490	Procedure	HCPCS	Any	0.805	Unclassified Drugs
DP03	H0031	Procedure	HCPCS	Any	0.803	Mental Health Assess Non-Physician
DP03	C504	Dispensing	Drug Class	Frequent	0.789	Dermatological - Depigmenting Agents And Combinations
DP03	C498	Dispensing	Drug Class	Frequent	0.780	Dermatological - Astringents / Hemostatics - Topical Agents And Combinations
DP03	J1100	Procedure	HCPCS	Any	0.761	Inj Dexmethoson Sodim Phoshate 1 Mg
DP03	A0428	Procedure	HCPCS	Any	0.754	Amb Service Bls Nonemerg Transport
DP03	G0447	Procedure	HCPCS	Any	0.754	Fce-Fce Behavrl Cnsl Obesity 15 Min



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	87502	Procedure	CPT	Any	0.730	Influenza Dna Amp Probe
DP03	C444	Dispensing	Drug Class	Any	0.730	Contrast Media - Ultrasound Agents And Combinations
DP03	L3984	Procedure	HCPCS	Any	0.718	Up Extrm Fx Orthosis Wrst Prfab
DP03	G0283	Procedure	HCPCS	Frequent	0.714	E-Stim 1/>Not Wnd Care Part Tx Plan
DP03	1159F	Procedure	CPT	Frequent	0.710	Med List Docd In Rcrd
DP03	J1030	Procedure	HCPCS	Any	0.707	Inj Methylprdnisalone Actat 40 Mg
DP03	ORG8071	Procedure	ICD-10-PCS	Any	0.687	Fus 8> Thor Vrt Jnt Auto Post Pc Op
DP03	G9903	Procedure	HCPCS	Any	0.684	Pt Scr Tob Use & Id As Tob Non-User
DP03	H2019	Procedure	HCPCS	Any	0.684	Therapeutic Behavioral Srvc 15 Min
DP03	C143	Dispensing	Drug Class	Often	0.668	Anticonvulsant - Monosaccharide Derivatives
DP03	H0032	Procedure	HCPCS	Often	0.668	Mentl Hlth Srvc Plan Dvlp Non-Phys
DP03	Z87	Diagnosis	ICD-10-CM	Frequent	0.664	Personal History Oth Diseases&Cond
DP03	J0696	Procedure	HCPCS	Any	0.663	Inj Ceftriaxone Sodium Per 250 Mg
DP03	C977	Dispensing	Drug Class	Any	0.662	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP03	R55	Diagnosis	ICD-10-CM	Frequent	0.662	Syncope And Collapse
DP03	A0398	Procedure	HCPCS	Any	0.652	Als Routine Disposable Supplies
DP03	J7296	Procedure	HCPCS	Any	0.652	Lng-Releasing lu Coc Sys 19.5 Mg
DP03	C1108	Dispensing	Drug Class	Often	0.646	Toxoid Vaccines
DP03	87635	Procedure	CPT	Any	0.645	Sars-Cov-2 Covid-19 Amp Prb
DP03	U0004	Procedure	HCPCS	Frequent	0.644	2019-Ncov Coronavirus/Covid-19 Any T
DP03	Z03	Diagnosis	ICD-10-CM	Frequent	0.644	Enc Med Obs Susp Dz Cond Ruled Out
DP03	L85	Diagnosis	ICD-10-CM	Frequent	0.639	Other Epidermal Thickening
DP03	U0004	Procedure	HCPCS	Any	0.630	2019-Ncov Coronavirus/Covid-19 Any T
DP03	C423	Dispensing	Drug Class	Often	0.625	Choleretics
DP03	C151	Dispensing	Drug Class	Frequent	0.618	Anticonvulsant - Sulfonamide Derivatives
DP03	K0553	Procedure	HCPCS	Often	0.613	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP03	C673	Dispensing	Drug Class	Frequent	0.607	Estrogens
DP03	G0283	Procedure	HCPCS	Often	0.604	E-Stim 1/>Not Wnd Care Part Tx Plan
DP03	C100	Dispensing	Drug Class	Often	0.601	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP03	C151	Dispensing	Drug Class	Often	0.601	Anticonvulsant - Sulfonamide Derivatives
DP03	L3660	Procedure	HCPCS	Any	0.601	Shoulder Orthos Fig 8 Canvas Prefab
DP03	U0002	Procedure	HCPCS	Any	0.601	2019-Ncov Covid-19 Sars-Cov-2/2019
DP03	87651	Procedure	CPT	Any	0.596	Strep A Dna Amp Probe
DP03	C917	Dispensing	Drug Class	Any	0.596	Nutritional Product - Msud Specific Formulation

**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	96372	Procedure	CPT	Any	0.593	Ther/Proph/Diag Inj Sc/Im
DP03	1159F	Procedure	CPT	Any	0.592	Med List Docd In Rcrd
DP03	M62	Diagnosis	ICD-10-CM	Often	0.589	Other Disorders Of Muscle
DP03	L1812	Procedure	HCPCS	Any	0.585	Knee Orthosis Elastic W/Jnts Prefab
DP03	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.584	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	Z03	Diagnosis	ICD-10-CM	Any	0.580	Enc Med Obs Susp Dz Cond Ruled Out
DP03	4A10X4Z	Procedure	ICD-10-PCS	Any	0.569	Monitor Central Nerv Elect Act Ext
DP03	4A11X4G	Procedure	ICD-10-PCS	Any	0.569	Monitor Perip Nerv Elec Intraop Ext
DP03	H0032	Procedure	HCPCS	Any	0.569	Mentl Hlth Srvc Plan Dvlp Non-Phys
DP03	G8484	Procedure	HCPCS	Frequent	0.566	Flu Immun Not Adm Reason Not Given
DP03	U0005	Procedure	HCPCS	Frequent	0.555	Ia Det Na; Sars-Cov-2 Covid-19
DP03	C174	Dispensing	Drug Class	Frequent	0.554	Antidiarrheal - Antiperistaltic Agents
DP03	C572	Dispensing	Drug Class	Any	0.551	Dextrose And Lactated Ringer'S Solutions / Minerals And Electrolytes - Electrolytes And
DP03	L3000	Procedure	HCPCS	Any	0.545	Ft Insrt Mold Ucb Type Berkly Shell
DP03	C4	Dispensing	Drug Class	Any	0.544	Acne Therapy Systemic
DP03	C515	Dispensing	Drug Class	Frequent	0.542	Dermatological - Emollients / Dietary Product - Dietary Supplements / Pharmaceutical
DP03	98941	Procedure	CPT	Frequent	0.540	Chiropract Manj 3-4 Regions
DP03	A7003	Procedure	HCPCS	Any	0.539	Admn Set Sm Vol Nonfiltr Neb Dispbl
DP03	C423	Dispensing	Drug Class	Any	0.536	Choleretics
DP03	87426	Procedure	CPT	Any	0.535	Sarscov Coronavirus Ag Ia
DP03	M62	Diagnosis	ICD-10-CM	Frequent	0.534	Other Disorders Of Muscle
DP03	C498	Dispensing	Drug Class	Any	0.533	Dermatological - Astringents / Hemostatics - Topical Agents And Combinations
DP03	C100	Dispensing	Drug Class	Frequent	0.530	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2) Antagonists
DP03	C808	Dispensing	Drug Class	Any	0.530	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP03	C1157	Dispensing	Drug Class	Any	0.528	Biologicals
DP03	M99	Diagnosis	ICD-10-CM	Frequent	0.519	Biomechanical Lesions Nec
DP03	J1885	Procedure	HCPCS	Any	0.515	Inj Ketorolac Tromethamine 15 Mg
DP03	U07	Diagnosis	ICD-10-CM	Any	0.511	Emergency Use Of U07
DP04	E7801	Diagnosis	ICD-9-CM	Any	4.816	No Description Available
DP04	0BJ08ZZ	Procedure	ICD-10-PCS	Any	3.430	Inspection Tbt Nat/Art Opening Endo
DP04	B518ZZA	Procedure	ICD-10-PCS	Any	3.112	Fluoro Superior Vena Cava Guidance
DP04	4A023N8	Procedure	ICD-10-PCS	Any	3.025	Measur Cardiac Sampl Press Bilat Pc
DP04	E161	Diagnosis	ICD-9-CM	Any	3.025	No Description Available
DP04	3E0T3BZ	Procedure	ICD-10-PCS	Any	2.944	Intro Anes Agt Periph Nrv&Plexi Pc



**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	E282	Diagnosis	ICD-9-CM	Frequent	2.870	No Description Available
DP04	99283	Procedure	HCPCS	Any	2.554	Emergency Dept Visit
DP04	E8881	Diagnosis	ICD-9-CM	Frequent	2.514	Fall Result Striking Agnst Oth Obj
DP04	87804	Procedure	HCPCS	Any	2.286	Influenza Assay W/Optic
DP04	99173	Procedure	HCPCS	Any	2.199	Visual Acuity Screen
DP04	99284	Procedure	HCPCS	Any	2.145	Emergency Dept Visit
DP04	4A1HXCZ	Procedure	ICD-10-PCS	Any	1.983	Monitor Prod Concept Cardi Rate Ext
DP04	85025	Procedure	HCPCS	Any	1.894	Complete Cbc W/Auto Diff Wbc
DP04	E781	Diagnosis	ICD-9-CM	Any	1.872	No Description Available
DP04	E1065	Diagnosis	ICD-9-CM	Frequent	1.821	No Description Available
DP04	J32	Diagnosis	ICD-10-CM	Frequent	1.787	Chronic Sinusitis
DP04	H2019	Procedure	HCPCS	Often	1.755	Therapeutic Behavioral Srvc 15 Min
DP04	99214	Procedure	HCPCS	Frequent	1.698	Office O/P Est Mod 30-39 Min
DP04	E282	Diagnosis	ICD-9-CM	Any	1.681	No Description Available
DP04	80053	Procedure	HCPCS	Any	1.662	Comprehen Metabolic Panel
DP04	C1032	Dispensing	Drug Class	Any	1.617	Pharmaceutical Adjuvant - Vehicle Excipients
DP04	92015	Procedure	HCPCS	Any	1.616	Determine Refractive State
DP04	S0580	Procedure	HCPCS	Any	1.603	Polycarbonate Lens
DP04	10D00Z1	Procedure	ICD-10-PCS	Any	1.558	Extraction Poc Low Open
DP04	99283	Procedure	HCPCS	Frequent	1.554	Emergency Dept Visit
DP04	S9451	Procedure	HCPCS	Any	1.515	Exercise Classes Non-Phys Per Sess
DP04	99214	Procedure	HCPCS	Any	1.496	Office O/P Est Mod 30-39 Min
DP04	V5008	Procedure	HCPCS	Any	1.490	Hearing Screening
DP04	E8881	Diagnosis	ICD-9-CM	Any	1.466	Fall Result Striking Agnst Oth Obj
DP04	H0004	Procedure	HCPCS	Frequent	1.452	Behavioral Health Cnsl&Tx-15 Min
DP04	V2756	Procedure	HCPCS	Any	1.446	Eye Glass Case
DP04	99213	Procedure	HCPCS	Frequent	1.337	Office O/P Est Low 20-29 Min
DP04	90686	Procedure	HCPCS	Any	1.314	liv4 Vacc No Prsv 0.5 Ml Im
DP04	87880	Procedure	HCPCS	Any	1.283	Strep A Assay W/Optic
DP04	J11	Diagnosis	ICD-10-CM	Frequent	1.262	Influenza Due To Unidentified Influ
DP04	T1015	Procedure	HCPCS	Frequent	1.201	Clinic Vst/Encounter All-Inclusive
DP04	E1065	Diagnosis	ICD-9-CM	Often	1.192	No Description Available
DP04	C449	Dispensing	Drug Class	Often	1.190	Cystic Fibrosis - Inhaled Osmotic Agents
DP04	S9088	Procedure	HCPCS	Frequent	1.155	Services Prov An Urgent Care Center

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	H0032	Procedure	HCPCS	Frequent	1.147	Mentl Hlth Srvc Plan Dvlp Non-Phys
DP04	C1033	Dispensing	Drug Class	Any	1.129	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP04	T1017	Procedure	HCPCS	Frequent	1.109	Targeted Case Management Ea 15 Mins
DP04	C714	Dispensing	Drug Class	Any	1.086	General Anesthetic - Parenteral
DP04	99213	Procedure	HCPCS	Any	1.070	Office O/P Est Low 20-29 Min
DP04	C80	Dispensing	Drug Class	Any	1.041	Antacid Combinations
DP04	99213	Procedure	HCPCS	Often	1.023	Office O/P Est Low 20-29 Min
DP04	C184	Dispensing	Drug Class	Often	1.021	Antidote - Activated Charcoal Combinations
DP04	C1032	Dispensing	Drug Class	Frequent	1.011	Pharmaceutical Adjuvant - Vehicle Excipients
DP04	C694	Dispensing	Drug Class	Any	1.006	G.U. Irrigants - Anti-Infective
DP04	T1017	Procedure	HCPCS	Often	0.999	Targeted Case Management Ea 15 Mins
DP04	T1015	Procedure	HCPCS	Often	0.998	Clinic Vst/Encounter All-Inclusive
DP04	D2140	Procedure	HCPCS	Any	0.992	Amalgam-One Surface Primary/Perm
DP04	L03	Diagnosis	ICD-10-CM	Frequent	0.988	Cellulitis And Acute Lymphangitis
DP04	H2019	Procedure	HCPCS	Any	0.972	Therapeutic Behavioral Srvc 15 Min
DP04	D8660	Procedure	HCPCS	Any	0.965	Preorthodontic Treatment Visit
DP04	C145	Dispensing	Drug Class	Often	0.956	Anticonvulsant - Phenyltriazine Derivatives
DP04	C128	Dispensing	Drug Class	Frequent	0.948	Anticonvulsant - Carbamates
DP04	99050	Procedure	CPT	Frequent	0.943	Medical Services After Hrs
DP04	C145	Dispensing	Drug Class	Frequent	0.932	Anticonvulsant - Phenyltriazine Derivatives
DP04	H0004	Procedure	HCPCS	Any	0.918	Behavioral Health Cnsl&Tx-15 Min
DP04	02HV33Z	Procedure	ICD-10-PCS	Any	0.904	Insrt Infus Devc Sup Vena Cava Perq
DP04	E6601	Diagnosis	ICD-9-CM	Any	0.884	No Description Available
DP04	C184	Dispensing	Drug Class	Any	0.878	Antidote - Activated Charcoal Combinations
DP04	C166	Dispensing	Drug Class	Frequent	0.873	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP04	3008F	Procedure	CPT	Any	0.864	Body Mass Index Docd
DP04	G40	Diagnosis	ICD-10-CM	Frequent	0.859	Epilepsy And Recurrent Seizures
DP04	E039	Diagnosis	ICD-9-CM	Any	0.846	No Description Available
DP04	D0340	Procedure	HCPCS	Any	0.841	2D Cephalomet X-Ray-Acq'n Msr&Analy
DP04	E559	Diagnosis	ICD-9-CM	Any	0.841	No Description Available
DP04	T1015	Procedure	HCPCS	Any	0.841	Clinic Vst/Encounter All-Inclusive
DP04	C791	Dispensing	Drug Class	Any	0.829	Live Vaccine And Live Virus Formulations / Vaccines - Bacterial
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	0.803	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	99394	Procedure	HCPCS	Any	0.800	Prev Visit Est Age 12-17

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	G8510	Procedure	HCPCS	Any	0.798	Scr Depr Doc Neg A F/U Plan Not Rqr
DP04	D8080	Procedure	HCPCS	Any	0.795	Comp Orthodont Tx Adoles Dentition
DP04	D0240	Procedure	HCPCS	Any	0.791	Intraoral-Occlusal Radiograph Image
DP04	94010	Procedure	CPT	Frequent	0.787	Breathing Capacity Test
DP04	C128	Dispensing	Drug Class	Often	0.781	Anticonvulsant - Carbamates
DP04	H2014	Procedure	HCPCS	Frequent	0.773	Skills Training&Dvlp Per 15 Minutes
DP04	C168	Dispensing	Drug Class	Any	0.772	Antidepressant Combinations
DP04	D0999	Procedure	HCPCS	Frequent	0.772	Unspec Diagnostic Procedure Report
DP04	C166	Dispensing	Drug Class	Often	0.768	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP04	C151	Dispensing	Drug Class	Frequent	0.762	Anticonvulsant - Sulfonamide Derivatives
DP04	86308	Procedure	CPT	Any	0.761	Heterophile Antibody Screen
DP04	C760	Dispensing	Drug Class	Frequent	0.753	Immunosuppressive - Monoclonal Antibody Inhib. T Lymphocyte Function
DP04	C137	Dispensing	Drug Class	Frequent	0.749	Anticonvulsant - Gaba Analogs / Postherpetic Neuralgia Agents
DP04	E119	Diagnosis	ICD-9-CM	Any	0.739	No Description Available
DP04	H0004	Procedure	HCPCS	Often	0.730	Behavioral Health Cnsl&Tx-15 Min
DP04	Z46	Diagnosis	ICD-10-CM	Any	0.726	Enc Fitting&Adjustment Oth Devices
DP04	C104	Dispensing	Drug Class	Frequent	0.724	Antiarrhythmic - Class I
DP04	C17	Dispensing	Drug Class	Frequent	0.723	Agents To Treat Periodic Paralysis - Carbonic Anhydrase Inhibitors
DP04	87804	Procedure	CPT	Any	0.714	Influenza Assay W/Optic
DP04	S06	Diagnosis	ICD-10-CM	Frequent	0.712	Intracranial Injury
DP04	92552	Procedure	CPT	Any	0.707	Pure Tone Audiometry Air
DP04	C497	Dispensing	Drug Class	Frequent	0.705	Dermatological - Astringents
DP04	H0036	Procedure	HCPCS	Frequent	0.702	Cmty Psyc Supp Tx Fce-To-Fce-15 Min
DP04	C143	Dispensing	Drug Class	Any	0.696	Anticonvulsant - Monosaccharide Derivatives
DP04	C145	Dispensing	Drug Class	Any	0.693	Anticonvulsant - Phenyltriazine Derivatives
DP04	C184	Dispensing	Drug Class	Frequent	0.689	Antidote - Activated Charcoal Combinations
DP05	D7140	Procedure	HCPCS	Any	1.990	Extrac Erupted Tooth/Exposed Root
DP05	C158	Dispensing	Drug Class	Frequent	1.860	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP05	C1173	Dispensing	Drug Class	Frequent	1.573	Unclassified Drug Products
DP05	U07	Diagnosis	ICD-10-CM	Any	1.559	Emergency Use Of U07
DP05	G8510	Procedure	HCPCS	Any	1.478	Scr Depr Doc Neg A F/U Plan Not Rqr
DP05	G0283	Procedure	HCPCS	Often	1.471	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	C98	Dispensing	Drug Class	Frequent	1.454	Antianxiety Agent - Benzodiazepines
DP05	R55	Diagnosis	ICD-10-CM	Frequent	1.385	Syncope And Collapse

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C1108	Dispensing	Drug Class	Frequent	1.350	Toxoid Vaccines
DP05	G0283	Procedure	HCPCS	Any	1.333	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	S62	Diagnosis	ICD-10-CM	Frequent	1.332	Fracture At Wrist And Hand Level
DP05	ODTJ4ZZ	Procedure	ICD-10-PCS	Any	1.254	Resection Appendix Perq Endoscopic
DP05	C145	Dispensing	Drug Class	Frequent	1.232	Anticonvulsant - Phenyltriazine Derivatives
DP05	R55	Diagnosis	ICD-10-CM	Any	1.205	Syncope And Collapse
DP05	C920	Dispensing	Drug Class	Any	1.184	Nutritional Product - Medical Condition Specific Formulation / Nutritional Product -
DP05	G89	Diagnosis	ICD-10-CM	Frequent	1.176	Pain Not Elsewhere Classified
DP05	C1158	Dispensing	Drug Class	Frequent	1.170	Biologicals
DP05	3008F	Procedure	CPT	Any	1.160	Body Mass Index Docd
DP05	J1030	Procedure	HCPCS	Any	1.153	Inj Methylprdnisalone Actat 40 Mg
DP05	G2023	Procedure	HCPCS	Frequent	1.148	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	C158	Dispensing	Drug Class	Often	1.140	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP05	G0283	Procedure	HCPCS	Frequent	1.113	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	C158	Dispensing	Drug Class	Any	1.087	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP05	F84	Diagnosis	ICD-10-CM	Frequent	1.075	Pervasive Developmental Disorders
DP05	D8080	Procedure	HCPCS	Any	1.018	Comp Orthodont Tx Adoles Dentition
DP05	F32	Diagnosis	ICD-10-CM	Frequent	1.008	Depressive Episode
DP05	C168	Dispensing	Drug Class	Any	0.983	Antidepressant Combinations
DP05	M76	Diagnosis	ICD-10-CM	Frequent	0.978	Enthesopathies Low Limb Exclud Foot
DP05	J1170	Procedure	HCPCS	Any	0.963	Injection Hydromorphone Up To 4 Mg
DP05	D9310	Procedure	HCPCS	Any	0.961	Cnslt Dx Dent/Phy Not Req Dent/Phy
DP05	G8420	Procedure	HCPCS	Any	0.954	Bmi Doc Nml Param & No F/U Plan Rqr
DP05	C338	Dispensing	Drug Class	Often	0.953	Antithyroid Agents
DP05	C128	Dispensing	Drug Class	Frequent	0.944	Anticonvulsant - Carbamates
DP05	C504	Dispensing	Drug Class	Frequent	0.944	Dermatological - Depigmenting Agents And Combinations
DP05	N39	Diagnosis	ICD-10-CM	Frequent	0.916	Other Disorders Of Urinary System
DP05	C104	Dispensing	Drug Class	Often	0.902	Antiarrhythmic - Class I
DP05	C145	Dispensing	Drug Class	Often	0.880	Anticonvulsant - Phenyltriazine Derivatives
DP05	C166	Dispensing	Drug Class	Often	0.880	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP05	C384	Dispensing	Drug Class	Frequent	0.880	Beta Blockers Non-Cardiac Selective, All
DP05	C386	Dispensing	Drug Class	Often	0.880	Bile Acids
DP05	U0003	Procedure	HCPCS	Any	0.880	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	C338	Dispensing	Drug Class	Any	0.875	Antithyroid Agents

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	D7230	Procedure	HCPCS	Any	0.853	Removal Impact Tooth - Partly Bony
DP05	G8432	Procedure	HCPCS	Frequent	0.849	Depression Scr Not Doc Rsn Not Gvn
DP05	A9276	Procedure	HCPCS	Often	0.837	Sensor; Invsv Intrstl Glu Mon Sys
DP05	C147	Dispensing	Drug Class	Often	0.825	Anticonvulsant - Potassium Channel Opener
DP05	C420	Dispensing	Drug Class	Any	0.821	Chelating Agents - Others / Pharmaceutical Adjuvant - Preservatives
DP05	C386	Dispensing	Drug Class	Frequent	0.804	Bile Acids
DP05	C166	Dispensing	Drug Class	Any	0.797	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP05	C5	Dispensing	Drug Class	Any	0.796	Acne Therapy Systemic / Tetracycline Antibiotics And Combinations
DP05	G8484	Procedure	HCPCS	Any	0.796	Flu Immun Not Adm Reason Not Given
DP05	U0003	Procedure	HCPCS	Frequent	0.791	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	G8432	Procedure	HCPCS	Any	0.784	Depression Scr Not Doc Rsn Not Gvn
DP05	90620	Procedure	CPT	Frequent	0.782	Menb-4C Vacc 2 Dose Im
DP05	Z02	Diagnosis	ICD-10-CM	Any	0.780	Encounter For Administrative Exam
DP05	C720	Dispensing	Drug Class	Frequent	0.773	Glycopeptide Antibiotics
DP05	C184	Dispensing	Drug Class	Any	0.762	Antidote - Activated Charcoal Combinations
DP05	J0696	Procedure	HCPCS	Any	0.748	Inj Ceftriaxone Sodium Per 250 Mg
DP05	G0444	Procedure	HCPCS	Any	0.742	Annual Depression Screening 15 Min
DP05	C479	Dispensing	Drug Class	Any	0.734	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP05	1160F	Procedure	CPT	Any	0.728	Rvw Meds By Rx/Dr In Rcrd
DP05	C1172	Dispensing	Drug Class	Frequent	0.725	Unclassified Drug Products
DP05	C815	Dispensing	Drug Class	Any	0.722	Minerals And Electrolytes - Calcium And Combinations / Minerals And Electrolytes -
DP05	U0005	Procedure	HCPCS	Frequent	0.722	Ia Det Na; Sars-Cov-2 Covid-19
DP05	A4232	Procedure	HCPCS	Any	0.717	Syringe Ndle Ext Insulin Pump Sterl
DP05	C217	Dispensing	Drug Class	Frequent	0.717	Antihyperlipidemic - Bile Acid Sequestrants
DP05	G2023	Procedure	HCPCS	Any	0.716	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	C386	Dispensing	Drug Class	Any	0.712	Bile Acids
DP05	C384	Dispensing	Drug Class	Any	0.708	Beta Blockers Non-Cardiac Selective, All
DP05	G0378	Procedure	HCPCS	Frequent	0.708	Hospital Observatn Service Per Hour
DP05	D2160	Procedure	HCPCS	Any	0.705	Amalgam-3 Surfaces Primary/Perm
DP05	C996	Dispensing	Drug Class	Any	0.700	Parenteral Nutrition-Amino Acid, Dextrose And Electrolytes Combination
DP05	C381	Dispensing	Drug Class	Often	0.697	B-Complex Vitamins And Combinations / Vitamins - Water Soluble
DP05	C9	Dispensing	Drug Class	Any	0.697	Acne Therapy Topical / Dermatological - Rosacea Therapy, Topical
DP05	C1108	Dispensing	Drug Class	Any	0.695	Toxoid Vaccines
DP05	F84	Diagnosis	ICD-10-CM	Often	0.692	Pervasive Developmental Disorders

**Appendix E. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 12 to 18, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	Z20	Diagnosis	ICD-10-CM	Any	0.692	Contact With Expos Communicable Dz
DP05	K59	Diagnosis	ICD-10-CM	Any	0.690	Oth Functional Intestinal Disorders
DP05	C1713	Procedure	HCPCS	Any	0.685	Anchr/Screw Oppos Bn-Bn/Sft Tiss-Bn
DP05	J2250	Procedure	HCPCS	Any	0.682	Injection Midazolam Hcl Per 1 Mg
DP05	C409	Dispensing	Drug Class	Frequent	0.679	Catheter Lock Solutions
DP05	C792	Dispensing	Drug Class	Frequent	0.679	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP05	C970	Dispensing	Drug Class	Any	0.679	Ophthalmic Antivirals
DP05	K21	Diagnosis	ICD-10-CM	Frequent	0.679	Gastro-Esophageal Reflux Disease
DP05	88305	Procedure	CPT	Any	0.660	Tissue Exam By Pathologist
DP05	C423	Dispensing	Drug Class	Frequent	0.656	Choleretics
DP05	17110	Procedure	CPT	Frequent	0.653	Destruct B9 Lesion 1-14
DP05	C380	Dispensing	Drug Class	Frequent	0.652	B-Complex Vitamins And Combinations / Minerals And Electrolytes - Iron And
DP05	C1108	Dispensing	Drug Class	Often	0.632	Toxoid Vaccines
DP05	C919	Dispensing	Drug Class	Any	0.632	Nutritional Product - Medical Condition Specific Formulation
DP05	87426	Procedure	CPT	Any	0.629	Sarscov Coronavirus Ag Ia
DP05	C504	Dispensing	Drug Class	Any	0.627	Dermatological - Depigmenting Agents And Combinations
DP05	H53	Diagnosis	ICD-10-CM	Any	0.620	Visual Disturbances
DP05	1160F	Procedure	CPT	Frequent	0.611	Rvw Meds By Rx/Dr In Rcrd
DP05	C791	Dispensing	Drug Class	Any	0.611	Live Vaccine And Live Virus Formulations / Vaccines - Bacterial
DP05	M21	Diagnosis	ICD-10-CM	Often	0.611	Other Acquired Deformities Of Limbs
DP05	C143	Dispensing	Drug Class	Often	0.608	Anticonvulsant - Monosaccharide Derivatives
DP05	C166	Dispensing	Drug Class	Frequent	0.608	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP05	C184	Dispensing	Drug Class	Frequent	0.608	Antidote - Activated Charcoal Combinations
DP05	C449	Dispensing	Drug Class	Often	0.608	Cystic Fibrosis - Inhaled Osmotic Agents

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st (≤ 25th), 2nd (>25th but ≤50th), 3rd (>50th but ≤75th), and 4th (>75th).



**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	4100	Diagnosis	ICD-9-CM	Any	3.313	Acut Myocard Infarct Anterolat Wall
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	3.313	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP01	30233N1	Procedure	ICD-10-PCS	Any	2.271	Tran Nauto Red Bld Cll Periph Vn Pc
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.704	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	7809	Diagnosis	ICD-9-CM	Often	1.564	Other General Symptoms
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.480	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	1.416	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	7809	Diagnosis	ICD-9-CM	Any	1.367	Other General Symptoms
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	1.322	Inspection Lw Intestinal Tract Endo
DP01	10D07Z6	Procedure	ICD-10-PCS	Any	1.292	Extraction Poc Vacuum Nat/Art Opg
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.280	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP01	7809	Diagnosis	ICD-9-CM	Frequent	1.234	Other General Symptoms
DP01	0KQM0ZZ	Procedure	ICD-10-PCS	Any	1.209	Repair Perineum Muscle Open
DP01	S0281	Procedure	HCPCS	Often	1.155	Med Home Program Care Coord Maint
DP01	S0281	Procedure	HCPCS	Any	1.119	Med Home Program Care Coord Maint
DP01	5A2204Z	Procedure	ICD-10-PCS	Any	1.081	Restoration Cardiac Rhythm Single
DP01	0BQT4ZZ	Procedure	ICD-10-PCS	Any	1.056	Repair Diaphragm Percutaneous Endo
DP01	0DB64Z3	Procedure	ICD-10-PCS	Any	1.018	Excision Stomach Perq Endo Vertical
DP01	C1004	Dispensing	Drug Class	Frequent	0.999	Periodontal Product - Anti-Infectives
DP01	J10	Diagnosis	ICD-10-CM	Frequent	0.972	Flu D/T Oth Id Influenza Virus
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.959	Inspect Upper Intestine Tract Endo
DP01	B211YZZ	Procedure	ICD-10-PCS	Any	0.935	Fluoro Multiple Cor Art Oth Cont
DP01	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.933	Resect Lumbar Vertebral Disc Open
DP01	0T778DZ	Procedure	ICD-10-PCS	Any	0.892	Dil Lt Ureter Il Nat/Art Opng Endo
DP01	XW033E5	Procedure	ICD-10-PCS	Any	0.889	Intr Remdesivir Periph Vn Perc Nt5
DP01	10907ZC	Procedure	ICD-10-PCS	Any	0.887	Drain Amnio Fluid Tx Poc Nat/Art Op
DP01	0BH17EZ	Procedure	ICD-10-PCS	Any	0.861	Insrt Et Aw Trachea Nat/Art Opening
DP01	10E0XZZ	Procedure	ICD-10-PCS	Any	0.848	Delivery Products Of Conception Ext
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	0.846	Drainage Spinal Canal Perq Appr Dx
DP01	02HV33Z	Procedure	ICD-10-PCS	Any	0.827	Insrt Infus Devc Sup Vena Cava Perq
DP01	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.825	Resect Gallbladder Perq Endo Appr
DP01	5A09357	Procedure	ICD-10-PCS	Any	0.809	Asst W/Resp Vent < 24 Con Hour Ccap
DP01	0SRD0J9	Procedure	ICD-10-PCS	Any	0.798	Repl L Knee Joint Synth Cmentd Open
DP01	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.798	Monitor Prod Concept Cardi Rate Ext

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G0009	Procedure	HCPCS	Any	0.791	Administration Pneumococcal Vacc
DP01	0UQMXZZ	Procedure	ICD-10-PCS	Any	0.781	Repair Vulva External
DP01	S9083	Procedure	HCPCS	Any	0.754	Global Fee Urgent Care Centers
DP01	G8510	Procedure	HCPCS	Any	0.733	Scr Depr Doc Neg A F/U Plan Not Rqr
DP01	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.685	Intro Anes Agt Periph Nrv&Plexi Pc
DP01	G2023	Procedure	HCPCS	Frequent	0.678	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	A0429	Procedure	HCPCS	Any	0.676	Amb Service Bls Emergency Transport
DP01	0UT20ZZ	Procedure	ICD-10-PCS	Any	0.657	Resection Bilateral Ovaries Open
DP01	3E033XZ	Procedure	ICD-10-PCS	Any	0.657	Intro Vasopressor Periph Vn Perq
DP01	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.653	Repair Perineum Skin Ext Approach
DP01	ORG20A0	Procedure	ICD-10-PCS	Any	0.650	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP01	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.638	Excision Of Left Saphenous Vein Pe
DP01	0FC98ZZ	Procedure	ICD-10-PCS	Any	0.638	Extirpatn Matter Cmn Bile Duct Endo
DP01	B35	Diagnosis	ICD-10-CM	Frequent	0.600	Dermatophytosis
DP01	0DB68ZX	Procedure	ICD-10-PCS	Any	0.599	Exc Stomach Nat/Art Opening Endo Dx
DP01	0T9B70Z	Procedure	ICD-10-PCS	Any	0.599	Drain Bladder Drain Devc Nat/Art Op
DP01	3E033VJ	Procedure	ICD-10-PCS	Any	0.586	Intro Oth Hormone Periph Vn Perq
DP01	C679	Dispensing	Drug Class	Frequent	0.581	Factor Ix Preparations
DP01	3E02340	Procedure	ICD-10-PCS	Any	0.579	Intro Influenza Vaccne Muscle Perq
DP01	B2151ZZ	Procedure	ICD-10-PCS	Any	0.579	Fluoro Lt Heart Low Osmolar Contrst
DP01	0BJ08ZZ	Procedure	ICD-10-PCS	Any	0.558	Inspection Tbt Nat/Art Opening Endo
DP01	0D9670Z	Procedure	ICD-10-PCS	Any	0.558	Drain Stomach Drain Devc Nat/Art Op
DP01	02100Z9	Procedure	ICD-10-PCS	Any	0.548	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP01	C338	Dispensing	Drug Class	Frequent	0.539	Antithyroid Agents
DP01	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.537	Inspection Bladder Nat/Art Opn Endo
DP01	J1650	Procedure	HCPCS	Any	0.533	Injection Enoxaparin Sodium 10 Mg
DP01	J1650	Procedure	HCPCS	Frequent	0.522	Injection Enoxaparin Sodium 10 Mg
DP01	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.519	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	0SB40ZZ	Procedure	ICD-10-PCS	Any	0.516	Excision Of Lumbosacral Disc Open
DP01	87426	Procedure	CPT	Any	0.497	Sarscov Coronavirus Ag Ia
DP01	0SG00AJ	Procedure	ICD-10-PCS	Any	0.495	Fusion Lv Joint If Post Appr Ac Opn
DP01	A7033	Procedure	HCPCS	Frequent	0.494	Pillw Nasl Cannula Type Intf Repl
DP01	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.494	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	S0612	Procedure	HCPCS	Any	0.489	Annual Gyn Examination Est Patient



**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G2023	Procedure	HCPCS	Any	0.470	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.460	Ex Duodenum Nat/Art Opening Endo Dx
DP01	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.460	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.457	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	87804	Procedure	CPT	Any	0.455	Influenza Assay W/Optic
DP01	C1004	Dispensing	Drug Class	Often	0.453	Periodontal Product - Anti-Infectives
DP01	0SG00A0	Procedure	ICD-10-PCS	Any	0.448	Fusion Lv Joint If Ant Appr Ac Open
DP01	G0463	Procedure	HCPCS	Frequent	0.441	Hos Op Clin Visit Assess & Mgmt Pt
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.440	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP01	S9088	Procedure	HCPCS	Any	0.440	Services Prov An Urgent Care Center
DP01	J0696	Procedure	HCPCS	Any	0.439	Inj Ceftriaxone Sodium Per 250 Mg
DP01	A0425	Procedure	HCPCS	Any	0.438	Ground Mileage Per Statute Mile
DP01	E11	Diagnosis	ICD-10-CM	Frequent	0.437	Type 2 Diabetes Mellitus
DP01	G0103	Procedure	HCPCS	Any	0.436	Prostate Cancer Screening; Psa Test
DP01	C383	Dispensing	Drug Class	Frequent	0.432	Beta Blockers Cardiac Selective, All
DP01	E1390	Procedure	HCPCS	Any	0.430	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP01	C1004	Dispensing	Drug Class	Any	0.427	Periodontal Product - Anti-Infectives
DP01	0F798DZ	Procedure	ICD-10-PCS	Any	0.425	Dil Cmn Bd W II Dev Nat/Art Op Endo
DP01	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.425	Utilization Of All ICD-10-Pcs Procedure Codes
DP01	C829	Dispensing	Drug Class	Frequent	0.418	Minerals And Electrolytes - Manganese And Combinations
DP01	B24BZZ4	Procedure	ICD-10-PCS	Any	0.412	Usg Heart Aorta Transesophageal
DP01	C383	Dispensing	Drug Class	Often	0.412	Beta Blockers Cardiac Selective, All
DP01	A4604	Procedure	HCPCS	Frequent	0.400	Tubing W/Intgr Heat Elem W/Pap Devc
DP01	H40	Diagnosis	ICD-10-CM	Frequent	0.400	Glaucoma
DP01	C679	Dispensing	Drug Class	Often	0.397	Factor Ix Preparations
DP01	J1100	Procedure	HCPCS	Any	0.396	Inj Dexmethoson Sodim Phoshate 1 Mg
DP01	02HK3JZ	Procedure	ICD-10-PCS	Any	0.395	Ins Pacemakr Lead Rt Ventricle Perq
DP01	Z88	Diagnosis	ICD-10-CM	Frequent	0.389	Allergy Status Rx Meds&Biol Sbstnc
DP01	J0702	Procedure	HCPCS	Any	0.387	Inj Betamethasone Ac & Phos 3 Mg
DP01	U0004	Procedure	HCPCS	Any	0.385	2019-Ncov Cronavirus/Covid-19 Any T
DP01	0SRC0J9	Procedure	ICD-10-PCS	Any	0.384	Repl R Knee Joint Synth Cmentd Open
DP01	G8427	Procedure	HCPCS	Frequent	0.384	Elig Clin Doc M Updtd Rec Pt Meds
DP02	A0100	Procedure	HCPCS	Frequent	3.007	Nonemergency Transportation; Taxi
DP02	J10	Diagnosis	ICD-10-CM	Frequent	2.709	Flu D/T Oth Id Influenza Virus

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	G9903	Procedure	HCPCS	Any	2.379	Pt Scr Tob Use & Id As Tob Non-User
DP02	3078F	Procedure	CPT	Frequent	1.914	Diast Bp <80 Mm Hg
DP02	1159F	Procedure	CPT	Frequent	1.837	Med List Docd In Rcrd
DP02	1170F	Procedure	CPT	Any	1.837	Fxnl Status Assessed
DP02	3078F	Procedure	CPT	Often	1.829	Diast Bp <80 Mm Hg
DP02	1160F	Procedure	CPT	Frequent	1.794	Rvw Meds By Rx/Dr In Rcrd
DP02	1159F	Procedure	CPT	Any	1.770	Med List Docd In Rcrd
DP02	3074F	Procedure	CPT	Frequent	1.770	Syst Bp Lt 130 Mm Hg
DP02	G8427	Procedure	HCPCS	Any	1.756	Elig Clin Doc M Updtd Rec Pt Meds
DP02	3074F	Procedure	CPT	Any	1.741	Syst Bp Lt 130 Mm Hg
DP02	3078F	Procedure	CPT	Any	1.738	Diast Bp <80 Mm Hg
DP02	1159F	Procedure	CPT	Often	1.736	Med List Docd In Rcrd
DP02	1160F	Procedure	CPT	Any	1.719	Rvw Meds By Rx/Dr In Rcrd
DP02	G8427	Procedure	HCPCS	Frequent	1.696	Elig Clin Doc M Updtd Rec Pt Meds
DP02	1160F	Procedure	CPT	Often	1.690	Rvw Meds By Rx/Dr In Rcrd
DP02	0DB68ZX	Procedure	ICD-10-PCS	Any	1.635	Exc Stomach Nat/Art Opening Endo Dx
DP02	5A09357	Procedure	ICD-10-PCS	Any	1.525	Asst W/Resp Vent < 24 Con Hour Ccap
DP02	A0100	Procedure	HCPCS	Often	1.483	Nonemergency Transportation; Taxi
DP02	J10	Diagnosis	ICD-10-CM	Often	1.381	Flu D/T Oth Id Influenza Virus
DP02	B24BZZZ	Procedure	ICD-10-PCS	Any	1.378	Ultrasonography Of Heart With Aorta
DP02	94640	Procedure	CPT	Frequent	1.359	Airway Inhalation Treatment
DP02	99499	Procedure	CPT	Frequent	1.318	Unlisted E&M Service
DP02	02HK3JZ	Procedure	ICD-10-PCS	Any	1.315	Ins Pacemakr Lead Rt Ventricle Perq
DP02	C45	Dispensing	Drug Class	Frequent	1.298	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP02	A0100	Procedure	HCPCS	Any	1.294	Nonemergency Transportation; Taxi
DP02	02H63JZ	Procedure	ICD-10-PCS	Any	1.146	Insert Pacemkr Lead Rt Atrium Perq
DP02	0JH606Z	Procedure	ICD-10-PCS	Any	1.146	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP02	C44	Dispensing	Drug Class	Frequent	1.115	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	G0467	Procedure	HCPCS	Often	1.087	Fqhc Visit Established Patient
DP02	0DB78ZX	Procedure	ICD-10-PCS	Any	1.082	Exc Stom Pylorus Nat/Art Op Endo Dx
DP02	J1650	Procedure	HCPCS	Frequent	1.073	Injection Enoxaparin Sodium 10 Mg
DP02	XW033E5	Procedure	ICD-10-PCS	Any	1.066	Intr Remdesivir Periph Vn Perc Nt5
DP02	B2151ZZ	Procedure	ICD-10-PCS	Any	0.997	Fluro Lt Heart Low Osmolar Contrst
DP02	J7030	Procedure	HCPCS	Frequent	0.979	Infus Normal Saline Sol 1000 Cc

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	027034Z	Procedure	ICD-10-PCS	Any	0.972	Dil Ca 1 Art Rx-Elut II Devc Perq
DP02	0SG0071	Procedure	ICD-10-PCS	Any	0.960	Fusion Lv Joint Auto Sub Post Pc Op
DP02	G0467	Procedure	HCPCS	Any	0.958	Fqhc Visit Established Patient
DP02	83605	Procedure	CPT	Any	0.932	Assay Of Lactic Acid
DP02	I70	Diagnosis	ICD-10-CM	Frequent	0.922	Atherosclerosis
DP02	A0429	Procedure	HCPCS	Any	0.900	Amb Service Bls Emergency Transport
DP02	G0157	Procedure	HCPCS	Frequent	0.900	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	B2111ZZ	Procedure	ICD-10-PCS	Any	0.899	Fluoro Mx Cor Art Low Osmolar Cont
DP02	4A023N7	Procedure	ICD-10-PCS	Any	0.885	Measur Card Sampl Press Lt Heart Pc
DP02	94640	Procedure	CPT	Any	0.883	Airway Inhalation Treatment
DP02	0SG00AJ	Procedure	ICD-10-PCS	Any	0.883	Fusion Lv Joint If Post Appr Ac Opn
DP02	J1650	Procedure	HCPCS	Any	0.882	Injection Enoxaparin Sodium 10 Mg
DP02	99499	Procedure	CPT	Any	0.865	Unlisted E&M Service
DP02	0SB20ZZ	Procedure	ICD-10-PCS	Any	0.863	Excision Lumbar Vertebral Disc Open
DP02	G0467	Procedure	HCPCS	Frequent	0.863	Fqhc Visit Established Patient
DP02	G0152	Procedure	HCPCS	Any	0.857	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.849	Inspect Upper Intestine Tract Endo
DP02	G0157	Procedure	HCPCS	Any	0.834	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	03HY32Z	Procedure	ICD-10-PCS	Any	0.821	Insert Monit Devc Upper Artery Perq
DP02	G0378	Procedure	HCPCS	Any	0.813	Hospital Observatn Service Per Hour
DP02	C376	Dispensing	Drug Class	Frequent	0.807	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -
DP02	G0152	Procedure	HCPCS	Frequent	0.807	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	I70	Diagnosis	ICD-10-CM	Any	0.800	Atherosclerosis
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.797	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	C122	Dispensing	Drug Class	Often	0.792	Anticoagulants - Indanedione
DP02	C447	Dispensing	Drug Class	Often	0.787	Cystic Fib-Transmemb Conduct. Reg.(Cftr) Potentiator And Corrector Cmb
DP02	G0483	Procedure	HCPCS	Frequent	0.785	Dr Tst Defin Dr Id M P D 22/M Dr Cl
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.784	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	C122	Dispensing	Drug Class	Any	0.781	Anticoagulants - Indanedione
DP02	009U3ZX	Procedure	ICD-10-PCS	Any	0.778	Drainage Spinal Canal Perq Appr Dx
DP02	3E033VJ	Procedure	ICD-10-PCS	Any	0.767	Intro Oth Hormone Periph Vn Perq
DP02	C447	Dispensing	Drug Class	Any	0.764	Cystic Fib-Transmemb Conduct. Reg.(Cftr) Potentiator And Corrector Cmb
DP02	G0152	Procedure	HCPCS	Often	0.755	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	J2930	Procedure	HCPCS	Any	0.746	Inj Methylprdnisln Sodim To 125 Mg

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	05HY33Z	Procedure	ICD-10-PCS	Any	0.732	Insrt Infus Devc Up Vn Perq Appr
DP02	0DB98ZX	Procedure	ICD-10-PCS	Any	0.732	Ex Duodenum Nat/Art Opening Endo Dx
DP02	J1644	Procedure	HCPCS	Frequent	0.722	Inj Heparin Sodium Per 1000 Units
DP02	N18	Diagnosis	ICD-10-CM	Frequent	0.716	Chronic Kidney Disease
DP02	C158	Dispensing	Drug Class	Frequent	0.715	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP02	96365	Procedure	CPT	Any	0.712	Ther/Proph/Diag Iv Inf Init
DP02	G0157	Procedure	HCPCS	Often	0.712	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	82962	Procedure	CPT	Frequent	0.704	Glucose Blood Test
DP02	I12	Diagnosis	ICD-10-CM	Frequent	0.697	Hypertensive Chronic Kidney Disease
DP02	V2100	Procedure	HCPCS	Any	0.696	Spher 1 Visn Plano +/- 4.00-Lens
DP02	C122	Dispensing	Drug Class	Frequent	0.692	Anticoagulants - Indanedione
DP02	99223	Procedure	CPT	Frequent	0.691	Initial Hospital Care
DP02	85610	Procedure	CPT	Frequent	0.690	Prothrombin Time
DP02	C44	Dispensing	Drug Class	Often	0.688	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	83970	Procedure	CPT	Any	0.686	Assay Of Parathormone
DP02	96365	Procedure	CPT	Frequent	0.682	Ther/Proph/Diag Iv Inf Init
DP02	D50	Diagnosis	ICD-10-CM	Frequent	0.673	Iron Deficiency Anemia
DP02	N18	Diagnosis	ICD-10-CM	Often	0.672	Chronic Kidney Disease
DP02	J3490	Procedure	HCPCS	Frequent	0.665	Unclassified Drugs
DP02	4A023N8	Procedure	ICD-10-PCS	Any	0.660	Measur Cardiac Sampl Press Bilat Pc
DP02	A0425	Procedure	HCPCS	Any	0.659	Ground Mileage Per Statute Mile
DP02	99223	Procedure	CPT	Any	0.653	Initial Hospital Care
DP02	G0151	Procedure	HCPCS	Any	0.652	Srvc Pt Hom Hlth/Hospice Ea 15 Min
DP02	10907ZC	Procedure	ICD-10-PCS	Any	0.646	Drain Amnio Fluid Tx Poc Nat/Art Op
DP02	J44	Diagnosis	ICD-10-CM	Frequent	0.636	Other Copd
DP02	0DB64Z3	Procedure	ICD-10-PCS	Any	0.635	Excision Stomach Perq Endo Vertical
DP02	C45	Dispensing	Drug Class	Often	0.635	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP02	C447	Dispensing	Drug Class	Frequent	0.634	Cystic Fib-Transmemb Conduct. Reg.(Cftr) Potentiator And Corrector Cmb
DP02	C145	Dispensing	Drug Class	Frequent	0.633	Anticonvulsant - Phenyltriazine Derivatives
DP02	C193	Dispensing	Drug Class	Frequent	0.630	Antiemetic - Dopamine (D2) Antagonists And Combinations
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Frequent	2.421	Excision Of Lumbosacral Disc Open
DP03	00NY0ZZ	Procedure	ICD-10-PCS	Frequent	2.238	Release Lumbar Spinal Cord Open
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Any	1.742	Excision Of Lumbosacral Disc Open
DP03	00NY0ZZ	Procedure	ICD-10-PCS	Any	1.708	Release Lumbar Spinal Cord Open

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	1.504	Fusion Ls Jnt If Post Appr Ac Open
DP03	5A09357	Procedure	ICD-10-PCS	Any	1.475	Asst W/Resp Vent < 24 Con Hour Cpap
DP03	HZ2ZZZZ	Procedure	ICD-10-PCS	Any	1.373	Dtx Services For Substance Abuse Tx
DP03	4A11X4G	Procedure	ICD-10-PCS	Any	1.359	Monitor Perip Nerv Elec Intraop Ext
DP03	8E0Y0CZ	Procedure	ICD-10-PCS	Any	1.273	Robotic Asstd Proc Lower Ext Opn
DP03	0SG3071	Procedure	ICD-10-PCS	Any	1.174	Fusion Ls Joint Auto Sub Post Pc Op
DP03	009U3ZX	Procedure	ICD-10-PCS	Any	1.163	Drainage Spinal Canal Perq Appr Dx
DP03	00HU33Z	Procedure	ICD-10-PCS	Any	1.163	Insert Infus Devc Spinal Canal Perq
DP03	8E0W0CZ	Procedure	ICD-10-PCS	Frequent	1.140	Robotic Asstd Proc Trunk Open
DP03	0SB20ZZ	Procedure	ICD-10-PCS	Any	1.039	Excision Lumbar Vertebral Disc Open
DP03	0UB70ZZ	Procedure	ICD-10-PCS	Any	1.020	Excision Bilat Fallopian Tubes Op
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Frequent	0.985	Exc Sigmoid Colon Perq Endo Appr
DP03	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.981	Repair Diaphragm Percutaneous Endo
DP03	G8419	Procedure	HCPCS	Frequent	0.951	Bmi Doc Out NI Parm No F/U Doc No R
DP03	3E04305	Procedure	ICD-10-PCS	Any	0.940	Intro Oth Antineo Cntrl Vn Pc Appr
DP03	B211YZZ	Procedure	ICD-10-PCS	Any	0.939	Fluoro Multiple Cor Art Oth Cont
DP03	3E02340	Procedure	ICD-10-PCS	Any	0.919	Intro Influenza Vaccne Muscle Perq
DP03	E1390	Procedure	HCPCS	Often	0.906	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP03	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.901	Repair Perineum Muscle Open
DP03	0DB68ZX	Procedure	ICD-10-PCS	Often	0.897	Exc Stomach Nat/Art Opening Endo Dx
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.895	Exc Sigmoid Colon Perq Endo Appr
DP03	0BH17EZ	Procedure	ICD-10-PCS	Often	0.875	Insrt Et Aw Trachea Nat/Art Opening
DP03	G9899	Procedure	HCPCS	Frequent	0.862	Scr Dx F Dgtl/Dbt Mammo Rslt D&Rev
DP03	0T778DZ	Procedure	ICD-10-PCS	Any	0.853	Dil Lt Ureter II Nat/Art Opng Endo
DP03	G8754	Procedure	HCPCS	Frequent	0.850	Most Recent Diastolic Bp < 90Mm Hg
DP03	G8752	Procedure	HCPCS	Frequent	0.845	Most Recent Systolic Bp < 140Mm Hg
DP03	A7033	Procedure	HCPCS	Frequent	0.799	Pillw Nasl Cannula Type Intf Repl
DP03	10907ZC	Procedure	ICD-10-PCS	Any	0.782	Drain Amnio Fluid Tx Poc Nat/Art Op
DP03	U0002	Procedure	HCPCS	Any	0.758	2019-Ncov Covid-19 Sars-Cov-2/2019
DP03	02100Z9	Procedure	ICD-10-PCS	Any	0.757	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP03	0SRC0J9	Procedure	ICD-10-PCS	Any	0.734	Repl R Knee Joint Synth Cmentd Open
DP03	009U3ZX	Procedure	ICD-10-PCS	Often	0.706	Drainage Spinal Canal Perq Appr Dx
DP03	G8732	Procedure	HCPCS	Any	0.688	No Doc Pain Asmt Reason Not Given
DP03	J0702	Procedure	HCPCS	Any	0.682	Inj Betamethasone Ac & Phos 3 Mg

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	10E0XZZ	Procedure	ICD-10-PCS	Any	0.680	Delivery Products Of Conception Ext
DP03	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.680	Intro Hormone Fe Repr Nat/Art Open
DP03	E0603	Procedure	HCPCS	Any	0.671	Breast Pump Electric Any Type
DP03	0T778DZ	Procedure	ICD-10-PCS	Often	0.652	Dil Lt Ureter II Nat/Art Opng Endo
DP03	87426	Procedure	CPT	Any	0.639	Sarscov Coronavirus Ag Ia
DP03	J1100	Procedure	HCPCS	Any	0.638	Inj Dexmethoson Sodim Phoshate 1 Mg
DP03	0WQF0ZZ	Procedure	ICD-10-PCS	Frequent	0.629	Repair Abdominal Wall Open
DP03	5A1935Z	Procedure	ICD-10-PCS	Often	0.629	Respiratory Vent < 24 Cons Hours
DP03	5A1935Z	Procedure	ICD-10-PCS	Any	0.596	Respiratory Vent < 24 Cons Hours
DP03	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.595	Dilate Cervix Via Natural/Art Opg
DP03	30233R1	Procedure	ICD-10-PCS	Any	0.595	Tran Nonauto Platelets Periph Vn Pc
DP03	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.582	Monitor Prod Concept Cardi Rate Ext
DP03	8E0W0CZ	Procedure	ICD-10-PCS	Any	0.580	Robotic Asstd Proc Trunk Open
DP03	B24BZZZ	Procedure	ICD-10-PCS	Any	0.580	Ultrasonography Of Heart With Aorta
DP03	U07	Diagnosis	ICD-10-CM	Frequent	0.580	Emergency Use Of U07
DP03	G8730	Procedure	HCPCS	Frequent	0.576	Pain Assess Pos Tool F/U Plan Doc
DP03	U07	Diagnosis	ICD-10-CM	Any	0.574	Emergency Use Of U07
DP03	G8541	Procedure	HCPCS	Any	0.572	Func Outcome Assess Not Doc No Rsn
DP03	10D07Z6	Procedure	ICD-10-PCS	Any	0.565	Extraction Poc Vacuum Nat/Art Opg
DP03	B2151ZZ	Procedure	ICD-10-PCS	Any	0.565	Fluoro Lt Heart Low Osmolar Contrst
DP03	B2151ZZ	Procedure	ICD-10-PCS	Often	0.565	Fluoro Lt Heart Low Osmolar Contrst
DP03	J0696	Procedure	HCPCS	Any	0.559	Inj Ceftriaxone Sodium Per 250 Mg
DP03	0DB68ZX	Procedure	ICD-10-PCS	Any	0.550	Exc Stomach Nat/Art Opening Endo Dx
DP03	J1071	Procedure	HCPCS	Often	0.541	Inj Testosterone Cypionate 1 Mg
DP03	3E0R3BZ	Procedure	ICD-10-PCS	Any	0.534	Intro Anest Agent Spinal Canal Perq
DP03	5A2204Z	Procedure	ICD-10-PCS	Any	0.534	Restoration Cardiac Rhythm Single
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.533	Excision Of Left Saphenous Vein Pe
DP03	0RB30ZZ	Procedure	ICD-10-PCS	Any	0.533	Excision Cerv Vertebral Disc Open
DP03	0RG20A0	Procedure	ICD-10-PCS	Any	0.533	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP03	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.524	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.521	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	J1071	Procedure	HCPCS	Any	0.515	Inj Testosterone Cypionate 1 Mg
DP03	0DB98ZX	Procedure	ICD-10-PCS	Any	0.503	Ex Duodenum Nat/Art Opening Endo Dx
DP03	OST20ZZ	Procedure	ICD-10-PCS	Any	0.503	Resect Lumbar Vertebral Disc Open



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	G8484	Procedure	HCPCS	Frequent	0.501	Flu Immun Not Adm Reason Not Given
DP03	C9803	Procedure	HCPCS	Any	0.497	Placeholder Only - Code Has Not Bee
DP03	C42	Dispensing	Drug Class	Frequent	0.493	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	3E0P7GC	Procedure	ICD-10-PCS	Any	0.489	Intro Oth Tx Sbstnc Fe Reprod
DP03	0BH17EZ	Procedure	ICD-10-PCS	Any	0.486	Insrt Et Aw Trachea Nat/Art Opening
DP03	96372	Procedure	CPT	Any	0.485	Ther/Proph/Diag Inj Sc/Im
DP03	96372	Procedure	CPT	Frequent	0.473	Ther/Proph/Diag Inj Sc/Im
DP03	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.470	Inspection Bladder Nat/Art Opn Endo
DP03	C383	Dispensing	Drug Class	Frequent	0.465	Beta Blockers Cardiac Selective, All
DP03	027034Z	Procedure	ICD-10-PCS	Any	0.458	Dil Ca 1 Art Rx-Elut II Devc Perq
DP03	C669	Dispensing	Drug Class	Frequent	0.456	Emergency Contraceptive Combinations
DP03	3E033VJ	Procedure	ICD-10-PCS	Any	0.452	Intro Oth Hormone Periph Vn Perq
DP03	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.451	Repair Perineum Skin Ext Approach
DP03	U0004	Procedure	HCPCS	Frequent	0.448	2019-Ncov Coronavirus/Covid-19 Any T
DP03	G8541	Procedure	HCPCS	Frequent	0.441	Func Outcome Assess Not Doc No Rsn
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.436	Inspect Upper Intestine Tract Endo
DP03	0DJD8ZZ	Procedure	ICD-10-PCS	Often	0.436	Inspection Lw Intestinal Tract Endo
DP03	0WQF0ZZ	Procedure	ICD-10-PCS	Any	0.436	Repair Abdominal Wall Open
DP03	3E03317	Procedure	ICD-10-PCS	Any	0.436	Intro Oth Thrmbolet Periph Vn Perq
DP03	C42	Dispensing	Drug Class	Often	0.435	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	G8432	Procedure	HCPCS	Frequent	0.435	Depression Scr Not Doc Rsn Not Gvn
DP03	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.429	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	U0004	Procedure	HCPCS	Any	0.424	2019-Ncov Coronavirus/Covid-19 Any T
DP03	C383	Dispensing	Drug Class	Any	0.423	Beta Blockers Cardiac Selective, All
DP03	J1071	Procedure	HCPCS	Frequent	0.423	Inj Testosterone Cypionate 1 Mg
DP03	L1902	Procedure	HCPCS	Any	0.410	Ank Orth Ank Gauntlt/Sim Prefab Ots
DP03	0UT20ZZ	Procedure	ICD-10-PCS	Any	0.406	Resection Bilateral Ovaries Open
DP03	J1030	Procedure	HCPCS	Any	0.406	Inj Methylprdnisolone Actat 40 Mg
DP04	E1143	Diagnosis	ICD-9-CM	Frequent	4.029	No Description Available
DP04	E1143	Diagnosis	ICD-9-CM	Often	3.559	No Description Available
DP04	85025	Procedure	HCPCS	Any	2.965	Complete Cbc W/Auto Diff Wbc
DP04	E1143	Diagnosis	ICD-9-CM	Any	2.930	No Description Available
DP04	80053	Procedure	HCPCS	Any	2.864	Comprehen Metabolic Panel
DP04	E1151	Diagnosis	ICD-9-CM	Any	2.748	No Description Available

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	E8770	Diagnosis	ICD-9-CM	Any	2.694	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Frequent	2.380	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Any	2.306	No Description Available
DP04	S0215	Procedure	HCPCS	Frequent	2.108	Non-Emerg Transportation; Per Mile
DP04	E0590	Diagnosis	ICD-9-CM	Frequent	2.083	No Description Available
DP04	E162	Diagnosis	ICD-9-CM	Any	2.083	No Description Available
DP04	E890	Diagnosis	ICD-9-CM	Often	2.083	Conflagration In Private Dwelling
DP04	E042	Diagnosis	ICD-9-CM	Often	2.000	No Description Available
DP04	H0004	Procedure	HCPCS	Frequent	1.935	Behavioral Health Cnsl&Tx-15 Min
DP04	H2010	Procedure	HCPCS	Often	1.904	Comp Medication Services Per 15 Min
DP04	E041	Diagnosis	ICD-9-CM	Often	1.877	No Description Available
DP04	D0999	Procedure	HCPCS	Frequent	1.841	Unspec Diagnostic Procedure Report
DP04	T1016	Procedure	HCPCS	Frequent	1.768	Case Management Each 15 Mins
DP04	C1037	Dispensing	Drug Class	Frequent	1.753	Phosphate Binders - Calcium-Based
DP04	S0215	Procedure	HCPCS	Any	1.746	Non-Emerg Transportation; Per Mile
DP04	E1140	Diagnosis	ICD-9-CM	Frequent	1.668	No Description Available
DP04	J7050	Procedure	HCPCS	Frequent	1.592	Infus Normal Saline Solution 250 Cc
DP04	S0215	Procedure	HCPCS	Often	1.584	Non-Emerg Transportation; Per Mile
DP04	J10	Diagnosis	ICD-10-CM	Often	1.552	Flu D/T Oth Id Influenza Virus
DP04	H2010	Procedure	HCPCS	Frequent	1.503	Comp Medication Services Per 15 Min
DP04	3E033XZ	Procedure	ICD-10-PCS	Any	1.495	Intro Vasopressor Periph Vn Perq
DP04	C901	Dispensing	Drug Class	Any	1.442	Neuromuscular Therapy Agents - Als Agents
DP04	10D17Z9	Procedure	ICD-10-PCS	Any	1.419	Man Ext Prod Conception Ret Nat/A O
DP04	E890	Diagnosis	ICD-9-CM	Any	1.419	Conflagration In Private Dwelling
DP04	S9083	Procedure	HCPCS	Frequent	1.406	Global Fee Urgent Care Centers
DP04	3008F	Procedure	HCPCS	Any	1.388	Body Mass Index Docd
DP04	E042	Diagnosis	ICD-9-CM	Any	1.375	No Description Available
DP04	R91	Diagnosis	ICD-10-CM	Frequent	1.323	Abnormal Findings Dx Imaging Lung
DP04	E041	Diagnosis	ICD-9-CM	Any	1.321	No Description Available
DP04	E0590	Diagnosis	ICD-9-CM	Any	1.321	No Description Available
DP04	C901	Dispensing	Drug Class	Often	1.316	Neuromuscular Therapy Agents - Als Agents
DP04	4A10X4Z	Procedure	ICD-10-PCS	Any	1.307	Monitor Central Nerv Elect Act Ext
DP04	E1390	Procedure	HCPCS	Often	1.260	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP04	E1165	Diagnosis	ICD-9-CM	Frequent	1.250	No Description Available



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	C840	Dispensing	Drug Class	Frequent	1.240	Minerals And Electrolytes - Tungsten
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.217	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	H2010	Procedure	HCPCS	Any	1.203	Comp Medication Services Per 15 Min
DP04	A0120	Procedure	HCPCS	Any	1.187	Nonemerg Trnsprt: Mini-Bus Mtn/Oth
DP04	J11	Diagnosis	ICD-10-CM	Frequent	1.149	Influenza Due To Unidentified Influ
DP04	G0483	Procedure	HCPCS	Frequent	1.144	Dr Tst Defin Dr Id M P D 22/M Dr Cl
DP04	C901	Dispensing	Drug Class	Frequent	1.133	Neuromuscular Therapy Agents - Als Agents
DP04	E0601	Procedure	HCPCS	Frequent	1.130	Continuous Pos Airway Pressure Devc
DP04	C151	Dispensing	Drug Class	Frequent	1.110	Anticonvulsant - Sulfonamide Derivatives
DP04	82565	Procedure	CPT	Any	1.106	Assay Of Creatinine
DP04	E1390	Procedure	HCPCS	Any	1.102	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP04	S9088	Procedure	HCPCS	Any	1.101	Services Prov An Urgent Care Center
DP04	H0004	Procedure	HCPCS	Often	1.086	Behavioral Health Cnsl&Tx-15 Min
DP04	H0004	Procedure	HCPCS	Any	1.069	Behavioral Health Cnsl&Tx-15 Min
DP04	82947	Procedure	CPT	Any	1.058	Assay Glucose Blood Quant
DP04	H0001	Procedure	HCPCS	Any	1.033	Alcohol And/Or Drug Assessment
DP04	3078F	Procedure	HCPCS	Any	1.011	Diast Bp <80 Mm Hg
DP04	00HU33Z	Procedure	ICD-10-PCS	Any	0.984	Insert Infus Devc Spinal Canal Perq
DP04	G0480	Procedure	HCPCS	Frequent	0.970	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP04	C1099	Dispensing	Drug Class	Frequent	0.964	Tetracycline Antibiotics And Combinations
DP04	C811	Dispensing	Drug Class	Frequent	0.962	Migraine Therapy Combinations
DP04	E669	Diagnosis	ICD-9-CM	Frequent	0.956	No Description Available
DP04	009U3ZX	Procedure	ICD-10-PCS	Any	0.951	Drainage Spinal Canal Perq Appr Dx
DP04	C151	Dispensing	Drug Class	Often	0.928	Anticonvulsant - Sulfonamide Derivatives
DP04	D1208	Procedure	HCPCS	Any	0.923	Topical Application Of Fluoride
DP04	D0999	Procedure	HCPCS	Any	0.918	Unspec Diagnostic Procedure Report
DP04	E1142	Diagnosis	ICD-9-CM	Any	0.893	No Description Available
DP04	C364	Dispensing	Drug Class	Frequent	0.887	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	A0100	Procedure	HCPCS	Often	0.870	Nonemergency Transportation; Taxi
DP04	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.867	Repair Diaphragm Percutaneous Endo
DP04	J44	Diagnosis	ICD-10-CM	Frequent	0.861	Other Copd
DP04	J1040	Procedure	HCPCS	Any	0.851	Inj Methylprdnisolone Actat 80 Mg
DP04	3008F	Procedure	HCPCS	Frequent	0.838	Body Mass Index Docd
DP04	E87	Diagnosis	ICD-10-CM	Frequent	0.831	Oth D/O Of Fluid Electrolyte & Abb

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	G0008	Procedure	HCPCS	Any	0.828	Administration Influenza Virus Vacc
DP04	E1165	Diagnosis	ICD-9-CM	Any	0.826	No Description Available
DP04	C1094	Dispensing	Drug Class	Frequent	0.822	Smoking Deterrents, Systemic
DP04	C1116	Dispensing	Drug Class	Often	0.816	Urinary Tract Protective Agents Used In Conjunction With Chemotherapy
DP04	C727	Dispensing	Drug Class	Frequent	0.816	Hsdd Agents-Mixed Serotonin Agonist/Antagonists
DP04	E119	Diagnosis	ICD-9-CM	Frequent	0.789	No Description Available
DP04	A0100	Procedure	HCPCS	Frequent	0.782	Nonemergency Transportation; Taxi
DP04	C792	Dispensing	Drug Class	Frequent	0.775	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP04	C42	Dispensing	Drug Class	Frequent	0.773	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP04	C409	Dispensing	Drug Class	Any	0.769	Catheter Lock Solutions
DP04	Z86	Diagnosis	ICD-10-CM	Any	0.768	Personal History Certain Other Dz
DP04	C683	Dispensing	Drug Class	Frequent	0.760	Factor X Preparations
DP04	E1165	Diagnosis	ICD-9-CM	Often	0.755	No Description Available
DP04	3074F	Procedure	CPT	Frequent	0.751	Syst Bp Lt 130 Mm Hg
DP04	G0444	Procedure	HCPCS	Any	0.750	Annual Depression Screening 15 Min
DP04	C850	Dispensing	Drug Class	Frequent	0.742	Mouth And Throat - Anti-Infective-Local Anesthetic Combinations / Mouth And
DP04	3E0234Z	Procedure	ICD-10-PCS	Any	0.740	Intro Serum Toxoid Vac Msc Perq
DP04	R69	Diagnosis	ICD-10-CM	Any	0.739	Illness Unspecified
DP04	R91	Diagnosis	ICD-10-CM	Any	0.739	Abnormal Findings Dx Imaging Lung
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.727	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	E1140	Diagnosis	ICD-9-CM	Any	0.725	No Description Available
DP04	C364	Dispensing	Drug Class	Often	0.724	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	E785	Diagnosis	ICD-9-CM	Any	0.720	No Description Available
DP04	C409	Dispensing	Drug Class	Often	0.703	Catheter Lock Solutions
DP04	J44	Diagnosis	ICD-10-CM	Often	0.701	Other Copd
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	0.698	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP05	J10	Diagnosis	ICD-10-CM	Frequent	2.710	Flu D/T Oth Id Influenza Virus
DP05	G8754	Procedure	HCPCS	Frequent	2.176	Most Recent Diastolic Bp < 90Mm Hg
DP05	G8752	Procedure	HCPCS	Frequent	2.007	Most Recent Systolic Bp < 140Mm Hg
DP05	G8432	Procedure	HCPCS	Frequent	1.955	Depression Scr Not Doc Rsn Not Gvn
DP05	A9270	Procedure	HCPCS	Frequent	1.870	Noncovered Item Or Service
DP05	U0005	Procedure	HCPCS	Frequent	1.852	Ia Det Na; Sars-Cov-2 Covid-19
DP05	J44	Diagnosis	ICD-10-CM	Frequent	1.831	Other Copd
DP05	C9803	Procedure	HCPCS	Any	1.812	Placeholder Only - Code Has Not Bee

**Appendix F. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	J1644	Procedure	HCPCS	Frequent	1.748	Inj Heparin Sodium Per 1000 Units
DP05	0D9670Z	Procedure	ICD-10-PCS	Any	1.740	Drain Stomach Drain Devc Nat/Art Op
DP05	G0463	Procedure	HCPCS	Frequent	1.735	Hos Op Clin Visit Assess & Mgmt Pt
DP05	G0439	Procedure	HCPCS	Any	1.692	Annual Wellness Vst; Pps Subsqst Vst
DP05	G2023	Procedure	HCPCS	Frequent	1.654	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	B2111ZZ	Procedure	ICD-10-PCS	Any	1.616	Fluoro Mx Cor Art Low Osmolar Cont
DP05	G2023	Procedure	HCPCS	Any	1.581	Spec Clct Sars-Cov2 Covid19 Any Src
DP05	I48	Diagnosis	ICD-10-CM	Frequent	1.550	Atrial Fibrillation And Flutter
DP05	J7050	Procedure	HCPCS	Frequent	1.538	Infus Normal Saline Solution 250 Cc
DP05	C1115	Dispensing	Drug Class	Any	1.523	Urinary Retention Therapy - Parasympathomimetic Agents
DP05	A9270	Procedure	HCPCS	Any	1.434	Noncovered Item Or Service
DP05	90662	Procedure	CPT	Any	1.410	liv No Prsv Increased Ag Im
DP05	G0009	Procedure	HCPCS	Any	1.403	Administration Pneumococcal Vacc
DP05	J44	Diagnosis	ICD-10-CM	Often	1.388	Other Copd
DP05	4A1HXCZ	Procedure	ICD-10-PCS	Any	1.315	Monitor Prod Concept Cardi Rate Ext
DP05	C95	Dispensing	Drug Class	Often	1.261	Antianginal And Anti-Ischemic Agents
DP05	J44	Diagnosis	ICD-10-CM	Any	1.260	Other Copd
DP05	U0003	Procedure	HCPCS	Frequent	1.212	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	U0005	Procedure	HCPCS	Any	1.197	Ia Det Na; Sars-Cov-2 Covid-19
DP05	C679	Dispensing	Drug Class	Often	1.152	Factor Ix Preparations
DP05	U07	Diagnosis	ICD-10-CM	Frequent	1.119	Emergency Use Of U07
DP05	I48	Diagnosis	ICD-10-CM	Often	1.113	Atrial Fibrillation And Flutter
DP05	U07	Diagnosis	ICD-10-CM	Any	1.111	Emergency Use Of U07
DP05	C95	Dispensing	Drug Class	Any	1.106	Antianginal And Anti-Ischemic Agents
DP05	N18	Diagnosis	ICD-10-CM	Frequent	1.106	Chronic Kidney Disease
DP05	C338	Dispensing	Drug Class	Frequent	1.103	Antithyroid Agents
DP05	G0463	Procedure	HCPCS	Any	1.103	Hos Op Clin Visit Assess & Mgmt Pt
DP05	93010	Procedure	CPT	Frequent	1.076	Electrocardiogram Report
DP05	71045	Procedure	CPT	Frequent	1.066	X-Ray Exam Chest 1 View
DP05	0KQM0ZZ	Procedure	ICD-10-PCS	Any	1.060	Repair Perineum Muscle Open
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	1.043	Delivery Products Of Conception Ext
DP05	85610	Procedure	CPT	Frequent	1.040	Prothrombin Time
DP05	R69	Diagnosis	ICD-10-CM	Frequent	1.038	Illness Unspecified
DP05	C679	Dispensing	Drug Class	Any	1.016	Factor Ix Preparations

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.994	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP05	C95	Dispensing	Drug Class	Frequent	0.987	Antianginal And Anti-Ischemic Agents
DP05	N18	Diagnosis	ICD-10-CM	Any	0.986	Chronic Kidney Disease
DP05	U0003	Procedure	HCPCS	Any	0.975	Ia Det Dna/Rna; Covid-19 Amp P T
DP05	C1158	Dispensing	Drug Class	Frequent	0.974	Biologicals
DP05	3078F	Procedure	CPT	Frequent	0.972	Diast Bp <80 Mm Hg
DP05	R69	Diagnosis	ICD-10-CM	Any	0.959	Illness Unspecified
DP05	N18	Diagnosis	ICD-10-CM	Often	0.958	Chronic Kidney Disease
DP05	E1390	Procedure	HCPCS	Any	0.949	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP05	B2151ZZ	Procedure	ICD-10-PCS	Any	0.946	Fluoro Lt Heart Low Osmolar Contrst
DP05	I25	Diagnosis	ICD-10-CM	Often	0.946	Chronic Ischemic Heart Disease
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.938	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	G8482	Procedure	HCPCS	Frequent	0.926	Influenza Immun Admin/Prev Recv
DP05	Z96	Diagnosis	ICD-10-CM	Frequent	0.924	Presence Other Functional Implants
DP05	H25	Diagnosis	ICD-10-CM	Any	0.920	Age-Related Cataract
DP05	I25	Diagnosis	ICD-10-CM	Frequent	0.918	Chronic Ischemic Heart Disease
DP05	C858	Dispensing	Drug Class	Any	0.904	Mouth And Throat - Local Anesthetic Mixtures
DP05	C858	Dispensing	Drug Class	Frequent	0.897	Mouth And Throat - Local Anesthetic Mixtures
DP05	C703	Dispensing	Drug Class	Any	0.894	Gastric Acidifiers
DP05	U0004	Procedure	HCPCS	Any	0.889	2019-Ncov Cronavirus/Covid-19 Any T
DP05	Z96	Diagnosis	ICD-10-CM	Any	0.889	Presence Other Functional Implants
DP05	3074F	Procedure	CPT	Frequent	0.882	Syst Bp Lt 130 Mm Hg
DP05	I48	Diagnosis	ICD-10-CM	Any	0.882	Atrial Fibrillation And Flutter
DP05	10D00Z1	Procedure	ICD-10-PCS	Any	0.873	Extraction Poc Low Open
DP05	J7050	Procedure	HCPCS	Any	0.873	Infus Normal Saline Solution 250 Cc
DP05	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.865	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	C338	Dispensing	Drug Class	Often	0.863	Antithyroid Agents
DP05	C1004	Dispensing	Drug Class	Often	0.857	Periodontal Product - Anti-Infectives
DP05	Z20	Diagnosis	ICD-10-CM	Frequent	0.856	Contact With Expos Communicable Dz
DP05	C1004	Dispensing	Drug Class	Frequent	0.852	Periodontal Product - Anti-Infectives
DP05	C405	Dispensing	Drug Class	Often	0.831	Cardiac Inotropes - Phosphodiesterase Inhibitors
DP05	E1390	Procedure	HCPCS	Often	0.823	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP05	G0378	Procedure	HCPCS	Any	0.819	Hospital Observatn Service Per Hour
DP05	I25	Diagnosis	ICD-10-CM	Any	0.811	Chronic Ischemic Heart Disease

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	G9903	Procedure	HCPCS	Frequent	0.798	Pt Scr Tob Use & Id As Tob Non-User
DP05	B35	Diagnosis	ICD-10-CM	Frequent	0.791	Dermatophytosis
DP05	C703	Dispensing	Drug Class	Often	0.791	Gastric Acidifiers
DP05	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.791	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP05	C921	Dispensing	Drug Class	Frequent	0.790	Nutritional Product - Medical Condition Specific Formulation / Nutritional
DP05	G8420	Procedure	HCPCS	Frequent	0.789	Bmi Doc Nml Param & No F/U Plan Rqr
DP05	C858	Dispensing	Drug Class	Often	0.779	Mouth And Throat - Local Anesthetic Mixtures
DP05	C679	Dispensing	Drug Class	Frequent	0.777	Factor Ix Preparations
DP05	C383	Dispensing	Drug Class	Frequent	0.765	Beta Blockers Cardiac Selective, All
DP05	3008F	Procedure	CPT	Frequent	0.764	Body Mass Index Docd
DP05	G8754	Procedure	HCPCS	Any	0.762	Most Recent Diastolic Bp < 90Mm Hg
DP05	1160F	Procedure	CPT	Frequent	0.760	Rvw Meds By Rx/Dr In Rcrd
DP05	G8432	Procedure	HCPCS	Any	0.760	Depression Scr Not Doc Rsn Not Gvn
DP05	C559	Dispensing	Drug Class	Frequent	0.751	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP05	C42	Dispensing	Drug Class	Often	0.749	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	1159F	Procedure	CPT	Frequent	0.746	Med List Docd In Rcrd
DP05	C42	Dispensing	Drug Class	Any	0.746	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C1004	Dispensing	Drug Class	Any	0.743	Periodontal Product - Anti-Infectives
DP05	C405	Dispensing	Drug Class	Any	0.743	Cardiac Inotropes - Phosphodiesterase Inhibitors
DP05	1160F	Procedure	CPT	Any	0.742	Rvw Meds By Rx/Dr In Rcrd
DP05	H25	Diagnosis	ICD-10-CM	Frequent	0.742	Age-Related Cataract
DP05	C104	Dispensing	Drug Class	Frequent	0.738	Antiarrhythmic - Class I
DP05	027034Z	Procedure	ICD-10-PCS	Any	0.736	Dil Ca 1 Art Rx-Elut II Devc Perq
DP05	M17	Diagnosis	ICD-10-CM	Often	0.722	Osteoarthritis Of Knee
DP06	G8988	Procedure	HCPCS	Frequent	3.321	Self Care Fcn Limitatn Goal At D/C
DP06	G8987	Procedure	HCPCS	Frequent	2.735	Slf Care Fcn Lim Cur Rep Intervls
DP06	G0471	Procedure	HCPCS	Frequent	2.558	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	P9603	Procedure	HCPCS	Frequent	2.454	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	P9604	Procedure	HCPCS	Frequent	2.420	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G8988	Procedure	HCPCS	Often	2.377	Self Care Fcn Limitatn Goal At D/C
DP06	G8989	Procedure	HCPCS	Any	2.324	Self Care Func Lim D/C Status D/C
DP06	G8987	Procedure	HCPCS	Often	2.236	Slf Care Fcn Lim Cur Rep Intervls
DP06	P9604	Procedure	HCPCS	Often	2.214	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G0471	Procedure	HCPCS	Often	2.211	Coll V Bld Vp/Urn Smp Cath Ind Snf

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	P9603	Procedure	HCPCS	Often	2.170	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	C808	Dispensing	Drug Class	Frequent	2.140	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) /
DP06	P9604	Procedure	HCPCS	Any	2.129	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G0471	Procedure	HCPCS	Any	2.075	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	G8982	Procedure	HCPCS	Frequent	2.027	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	P9603	Procedure	HCPCS	Any	1.971	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	G8987	Procedure	HCPCS	Any	1.788	Slf Care Fcn Lim Cur Rep Intervls
DP06	A0428	Procedure	HCPCS	Frequent	1.764	Amb Service Bls Nonemerg Transport
DP06	99309	Procedure	CPT	Frequent	1.762	Nursing Fac Care Subseq
DP06	99309	Procedure	CPT	Any	1.747	Nursing Fac Care Subseq
DP06	G8988	Procedure	HCPCS	Any	1.744	Self Care Fcn Limitatn Goal At D/C
DP06	G8982	Procedure	HCPCS	Often	1.735	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	99309	Procedure	CPT	Often	1.728	Nursing Fac Care Subseq
DP06	G8981	Procedure	HCPCS	Often	1.698	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	99308	Procedure	CPT	Frequent	1.696	Nursing Fac Care Subseq
DP06	R0075	Procedure	HCPCS	Any	1.687	Trans Prtbl Xray Eqp&Pers-Trip>1 Pt
DP06	99308	Procedure	CPT	Any	1.673	Nursing Fac Care Subseq
DP06	C808	Dispensing	Drug Class	Often	1.655	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) /
DP06	G8980	Procedure	HCPCS	Any	1.653	Mob:Wlk&Mov Arnd Fcn Lim D/C At D/C
DP06	Q0092	Procedure	HCPCS	Frequent	1.649	Set-Up Portable X-Ray Equipment
DP06	99308	Procedure	CPT	Often	1.643	Nursing Fac Care Subseq
DP06	C808	Dispensing	Drug Class	Any	1.586	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) /
DP06	A0428	Procedure	HCPCS	Any	1.577	Amb Service Bls Nonemerg Transport
DP06	C133	Dispensing	Drug Class	Often	1.576	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	4A11X4G	Procedure	ICD-10-PCS	Any	1.568	Monitor Perip Nerv Elec Intraop Ext
DP06	99307	Procedure	CPT	Any	1.562	Nursing Fac Care Subseq
DP06	Q0092	Procedure	HCPCS	Any	1.562	Set-Up Portable X-Ray Equipment
DP06	R0070	Procedure	HCPCS	Frequent	1.538	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP06	G8979	Procedure	HCPCS	Frequent	1.535	Mob: Walk Mov Around Fcn Lim Goal
DP06	R13	Diagnosis	ICD-10-CM	Frequent	1.534	Aphagia And Dysphagia
DP06	3E0G76Z	Procedure	ICD-10-PCS	Any	1.523	Intro Nut Sbstnc Ugi Via Nat/Art Op
DP06	R0070	Procedure	HCPCS	Any	1.522	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP06	C133	Dispensing	Drug Class	Frequent	1.498	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	97535	Procedure	CPT	Frequent	1.494	Self Care Mngment Training



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	97535	Procedure	CPT	Often	1.494	Self Care Mngmt Training
DP06	C122	Dispensing	Drug Class	Frequent	1.484	Anticoagulants - Indanedione
DP06	G0467	Procedure	HCPCS	Frequent	1.480	Fqhc Visit Established Patient
DP06	G8978	Procedure	HCPCS	Frequent	1.480	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C133	Dispensing	Drug Class	Any	1.416	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	C158	Dispensing	Drug Class	Frequent	1.412	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	97116	Procedure	CPT	Frequent	1.397	Gait Training Therapy
DP06	F03	Diagnosis	ICD-10-CM	Frequent	1.395	Unspecified Dementia
DP06	97116	Procedure	CPT	Often	1.393	Gait Training Therapy
DP06	99307	Procedure	CPT	Often	1.387	Nursing Fac Care Subseq
DP06	C338	Dispensing	Drug Class	Frequent	1.368	Antithyroid Agents
DP06	A0425	Procedure	HCPCS	Frequent	1.365	Ground Mileage Per Statute Mile
DP06	99307	Procedure	CPT	Frequent	1.302	Nursing Fac Care Subseq
DP06	C151	Dispensing	Drug Class	Often	1.282	Anticonvulsant - Sulfonamide Derivatives
DP06	C158	Dispensing	Drug Class	Often	1.282	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	G8979	Procedure	HCPCS	Often	1.269	Mob: Walk Mov Around Fcn Lim Goal
DP06	G8982	Procedure	HCPCS	Any	1.269	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	G8981	Procedure	HCPCS	Any	1.265	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	G8978	Procedure	HCPCS	Often	1.258	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	F03	Diagnosis	ICD-10-CM	Often	1.255	Unspecified Dementia
DP06	C151	Dispensing	Drug Class	Frequent	1.251	Anticonvulsant - Sulfonamide Derivatives
DP06	03HY32Z	Procedure	ICD-10-PCS	Any	1.224	Insert Monit Devc Upper Artery Perq
DP06	G0127	Procedure	HCPCS	Often	1.211	Trim Dystrophic Nails Any Number
DP06	G0127	Procedure	HCPCS	Any	1.203	Trim Dystrophic Nails Any Number
DP06	0D9670Z	Procedure	ICD-10-PCS	Any	1.165	Drain Stomach Drain Devc Nat/Art Op
DP06	C45	Dispensing	Drug Class	Often	1.163	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	C44	Dispensing	Drug Class	Often	1.115	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	F03	Diagnosis	ICD-10-CM	Any	1.108	Unspecified Dementia
DP06	30233R1	Procedure	ICD-10-PCS	Any	1.102	Tran Nonauto Platelets Periph Vn Pc
DP06	C44	Dispensing	Drug Class	Frequent	1.084	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	C679	Dispensing	Drug Class	Frequent	1.084	Factor Ix Preparations
DP06	4A023N6	Procedure	ICD-10-PCS	Any	1.067	Measur Card Sampl Press Rt Heart Pc
DP06	11720	Procedure	CPT	Often	1.057	Debride Nail 1-5
DP06	11720	Procedure	CPT	Any	1.054	Debride Nail 1-5

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	0DB64Z3	Procedure	ICD-10-PCS	Any	1.044	Excision Stomach Perq Endo Vertical
DP06	C338	Dispensing	Drug Class	Often	1.035	Antithyroid Agents
DP06	C985	Dispensing	Drug Class	Frequent	1.028	Overactive Bladder Agents
DP06	R13	Diagnosis	ICD-10-CM	Often	1.004	Aphagia And Dysphagia
DP06	C1169	Dispensing	Drug Class	Frequent	1.003	Autonomic Drugs
DP06	A0429	Procedure	HCPCS	Any	1.000	Amb Service Bls Emergency Transport
DP06	G8978	Procedure	HCPCS	Any	0.998	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C858	Dispensing	Drug Class	Frequent	0.990	Mouth And Throat - Local Anesthetic Mixtures
DP06	G8979	Procedure	HCPCS	Any	0.986	Mob: Walk Mov Around Fcn Lim Goal
DP06	4A033BC	Procedure	ICD-10-PCS	Any	0.978	Measure Arterial Press Coronary Pc
DP06	11721	Procedure	CPT	Often	0.977	Debride Nail 6 Or More
DP06	R41	Diagnosis	ICD-10-CM	Frequent	0.966	Oth Sx Signs Cog Func Awareness
DP06	C1149	Dispensing	Drug Class	Frequent	0.964	Anesthetics
DP06	C326	Dispensing	Drug Class	Frequent	0.964	Antiparkinson'S Adjuvants
DP06	C326	Dispensing	Drug Class	Often	0.938	Antiparkinson'S Adjuvants
DP06	97116	Procedure	CPT	Any	0.930	Gait Training Therapy
DP06	0DBN8ZX	Procedure	ICD-10-PCS	Any	0.927	Ex Sig Colon Via Nat/Art Op Endo Dx
DP06	0SR904A	Procedure	ICD-10-PCS	Any	0.927	Repl R Hip Jnt Ceram Ply Ucment Opn
DP06	G0467	Procedure	HCPCS	Often	0.924	Fqhc Visit Established Patient
DP06	11721	Procedure	CPT	Any	0.918	Debride Nail 6 Or More
DP06	B41F1ZZ	Procedure	ICD-10-PCS	Any	0.891	Fluoro Rt Low Ext Art Low Os Cont
DP06	B548ZZA	Procedure	ICD-10-PCS	Any	0.883	Ultrasonography Sup Vena Cava Guid

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st (≤ 25th), 2nd (>25th but ≤50th), 3rd (>50th but ≤75th), and 4th (>75th).



**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	B24BZZ4	Procedure	ICD-10-PCS	Any	1.453	Usg Heart Aorta Transesophageal
DP01	0HPT0JZ	Procedure	ICD-10-PCS	Any	1.255	Removal Synth Subst Rt Breast Open
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.255	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.229	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	XW033E5	Procedure	ICD-10-PCS	Any	1.096	Intr Remdesivir Periph Vn Perc Nt5
DP01	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.942	Resect Gallbladder Perq Endo Appr
DP01	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.942	Resection Uterus Open
DP01	05PYX3Z	Procedure	ICD-10-PCS	Any	0.850	Removal Infusion Device Up Vein Ext
DP01	0HD0XZZ	Procedure	ICD-10-PCS	Any	0.850	Extraction Scalp Skin External
DP01	0HPU0JZ	Procedure	ICD-10-PCS	Any	0.850	Removal Synth Subst Lt Breast Open
DP01	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.850	Inspection Bladder Nat/Art Opn Endo
DP01	10H07YZ	Procedure	ICD-10-PCS	Any	0.850	Insertion Other Device Poc
DP01	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.824	Intro Hormone Fe Repr Nat/Art Open
DP01	C669	Dispensing	Drug Class	Frequent	0.644	Emergency Contraceptive Combinations
DP01	C338	Dispensing	Drug Class	Frequent	0.613	Antithyroid Agents
DP01	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.609	Monitor Prod Concept Cardi Rate Ext
DP01	027034Z	Procedure	ICD-10-PCS	Any	0.562	Dil Ca 1 Art Rx-Elut II Devc Perq
DP01	05HY33Z	Procedure	ICD-10-PCS	Any	0.562	Insrt Infus Devc Up Vn Perq Appr
DP01	4A10X4Z	Procedure	ICD-10-PCS	Any	0.562	Monitor Central Nerv Elect Act Ext
DP01	01N10ZZ	Procedure	ICD-10-PCS	Any	0.536	Release Cervical Nerve Open Apprch
DP01	02HK3JZ	Procedure	ICD-10-PCS	Any	0.536	Ins Pacemakr Lead Rt Ventricle Perq
DP01	06BP4ZZ	Procedure	ICD-10-PCS	Any	0.536	Excision Of Right Saphenous Vein Pe
DP01	0JH606Z	Procedure	ICD-10-PCS	Any	0.536	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP01	0RT30ZZ	Procedure	ICD-10-PCS	Any	0.536	Resect Cerv Vert Disc Opn Approach
DP01	0SG0071	Procedure	ICD-10-PCS	Any	0.536	Fusion Lv Joint Auto Sub Post Pc Op
DP01	0SG10AJ	Procedure	ICD-10-PCS	Any	0.536	Fus 2/> Lv Jnt If Post Appr Ac Open
DP01	0SG30A0	Procedure	ICD-10-PCS	Any	0.536	Fusion Ls Joint If Ant Appr Ac Open
DP01	10H073Z	Procedure	ICD-10-PCS	Any	0.536	Insertion Monitoring Electrode Poc
DP01	3E0234Z	Procedure	ICD-10-PCS	Any	0.536	Intro Serum Toxoid Vac Msc Perq
DP01	B240ZZ3	Procedure	ICD-10-PCS	Any	0.536	Ultrasonography Sngl Cor Art Ivasc
DP01	BF101ZZ	Procedure	ICD-10-PCS	Any	0.536	Fluoro Bile Ducts L Osmolar Contrst
DP01	N/A	Diagnosis	ICD-9-CM	2nd Quartile	0.536	Utilization Of All ICD-9-Cm Diagnosis Codes

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	C1033	Dispensing	Drug Class	Frequent	0.513	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP01	G0399	Procedure	HCPCS	Any	0.504	Hst Type Iii Prtble Mon Min 4 Ch
DP01	C328	Dispensing	Drug Class	Frequent	0.499	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	U0004	Procedure	HCPCS	Frequent	0.497	2019-Ncov Cronavirus/Covid-19 Any T
DP01	B2151ZZ	Procedure	ICD-10-PCS	Any	0.493	Fluoro Lt Heart Low Osmolar Contrst
DP01	A9502	Procedure	HCPCS	Any	0.474	Tc-99M Tetrofosmin Dx - Study Dose
DP01	C1894	Procedure	HCPCS	Any	0.470	Intrducr/Sheath Not Guid Non-Lasr
DP01	C669	Dispensing	Drug Class	Often	0.447	Emergency Contraceptive Combinations
DP01	7809	Diagnosis	ICD-9-CM	Frequent	0.444	Other General Symptoms
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.444	Ex Duodenum Nat/Art Opening Endo Dx
DP01	5A09357	Procedure	ICD-10-PCS	Any	0.444	Asst W/Resp Vent < 24 Con Hour Cpap
DP01	C261	Dispensing	Drug Class	Frequent	0.431	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP01	G8417	Procedure	HCPCS	Frequent	0.431	Bmi Doc Abv Nml Param & F/U Pln Doc
DP01	C328	Dispensing	Drug Class	Any	0.422	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	C132	Dispensing	Drug Class	Frequent	0.419	Anticonvulsant - Functionalized Amino Acid
DP01	C716	Dispensing	Drug Class	Frequent	0.414	Geriatric Vitamins
DP01	C1149	Dispensing	Drug Class	Frequent	0.403	Anesthetics
DP01	J2785	Procedure	HCPCS	Any	0.403	Injection Regadenoson 0.1 Mg
DP01	C382	Dispensing	Drug Class	Frequent	0.398	Bph Agent- 5-Alpha Reductase Inhib And Alpha-1 Adrenoceptor Antag Comb
DP01	A9500	Procedure	HCPCS	Any	0.393	Tc-99M Sestamibi Dx Per Study Dose
DP01	G0480	Procedure	HCPCS	Frequent	0.386	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP01	C328	Dispensing	Drug Class	Often	0.382	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	C168	Dispensing	Drug Class	Frequent	0.361	Antidepressant Combinations
DP01	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.354	Resect Lumbar Vertebral Disc Open
DP01	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.354	Resection Bilat Fallopian Tubes Op
DP01	0W8NXZZ	Procedure	ICD-10-PCS	Any	0.354	Division Female Perineum External
DP01	4A11X4G	Procedure	ICD-10-PCS	Any	0.354	Monitor Perip Nerv Elec Intraop Ext
DP01	C221	Dispensing	Drug Class	Frequent	0.350	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents
DP01	J1071	Procedure	HCPCS	Frequent	0.348	Inj Testosterone Cypionate 1 Mg
DP01	C132	Dispensing	Drug Class	Often	0.345	Anticonvulsant - Functionalized Amino Acid
DP01	E0114	Procedure	HCPCS	Any	0.343	Crtches Undarm Oth Than Wood Pair
DP01	C95	Dispensing	Drug Class	Often	0.340	Antianginal And Anti-Ischemic Agents

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	J2765	Procedure	HCPCS	Any	0.340	Inj Metoclopramide Hcl To 10 Mg
DP01	C333	Dispensing	Drug Class	Any	0.332	Antipsychotic - Dopamine Antagonists
DP01	C333	Dispensing	Drug Class	Often	0.316	Antipsychotic - Dopamine Antagonists
DP01	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.313	Robotic Asstd Proc Trunk Perq Endo
DP01	J3420	Procedure	HCPCS	Frequent	0.313	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP01	A7030	Procedure	HCPCS	Any	0.302	Full Fce Mask Pos Arway Prss Dev Ea
DP01	G0482	Procedure	HCPCS	Any	0.298	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP01	C168	Dispensing	Drug Class	Often	0.292	Antidepressant Combinations
DP01	0SRC0J9	Procedure	ICD-10-PCS	Any	0.290	Repl R Knee Joint Synth Cmentd Open
DP01	A9585	Procedure	HCPCS	Any	0.289	Injection Gadobutrol 0.1 MI
DP01	83735	Procedure	CPT	Any	0.286	Assay Of Magnesium
DP01	A7039	Procedure	HCPCS	Any	0.286	Fltr Non Dispbl Pos Arway Prss Devc
DP01	C1769	Procedure	HCPCS	Any	0.282	Guide Wire
DP01	85652	Procedure	CPT	Any	0.280	Rbc Sed Rate Automated
DP01	C193	Dispensing	Drug Class	Any	0.279	Antiemetic - Dopamine (D2) Antagonists And Combinations
DP01	86140	Procedure	CPT	Any	0.278	C-Reactive Protein
DP01	C414	Dispensing	Drug Class	Frequent	0.272	Chelating Agents - Copper / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	J7050	Procedure	HCPCS	Any	0.272	Infus Normal Saline Solution 250 Cc
DP01	A7032	Procedure	HCPCS	Any	0.271	Cushn Nasal Mask Intf Repl Only Ea
DP01	C1172	Dispensing	Drug Class	Frequent	0.271	Unclassified Drug Products
DP01	G0481	Procedure	HCPCS	Frequent	0.268	Dr Tst Defn Dr Id M P D 8-14 Dr Cl
DP01	R10	Diagnosis	ICD-10-CM	Frequent	0.263	Abdominal And Pelvic Pain
DP01	A7037	Procedure	HCPCS	Any	0.262	Tubing Used W/Pos Arway Press Devc
DP01	C382	Dispensing	Drug Class	Often	0.261	Bph Agent- 5-Alpha Reductase Inhib And Alpha-1 Adrenoceptor Antag Comb
DP01	C451	Dispensing	Drug Class	Frequent	0.260	Dental Product - Dental Aids
DP01	J1644	Procedure	HCPCS	Any	0.260	Inj Heparin Sodium Per 1000 Units
DP01	A7031	Procedure	HCPCS	Any	0.254	Fce Mask Interfce Repl Full Mask Ea
DP01	C1033	Dispensing	Drug Class	Any	0.252	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP01	7809	Diagnosis	ICD-9-CM	Any	0.249	Other General Symptoms
DP01	0DB64Z3	Procedure	ICD-10-PCS	Any	0.249	Excision Stomach Perq Endo Vertical
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.249	Inspect Upper Intestine Tract Endo
DP01	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.249	Repair Perineum Skin Ext Approach

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	ORG20A0	Procedure	ICD-10-PCS	Any	0.249	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP01	OVTTXZZ	Procedure	ICD-10-PCS	Any	0.249	Resection Prepuce External Approach
DP01	3E03329	Procedure	ICD-10-PCS	Any	0.249	Intro Oth Anti-Infec Periph Vn Perq
DP01	Q9966	Procedure	HCPCS	Any	0.249	Locm 200-299 Mg/MI I Conc Per MI
DP02	5A1D70Z	Procedure	ICD-10-PCS	Any	1.448	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP02	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.937	Release Lumbar Nerve Open Approach
DP02	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.937	Intro Anes Agt Periph Nrv&Plexi Pc
DP02	B518ZZA	Procedure	ICD-10-PCS	Any	0.937	Fluoro Superior Vena Cava Guidance
DP02	027034Z	Procedure	ICD-10-PCS	Any	0.855	Dil Ca 1 Art Rx-Elut II Devc Perq
DP02	0B9D8ZX	Procedure	ICD-10-PCS	Any	0.855	Drn Rt Mid Lung Lb Nat/Art Op En Dx
DP02	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.855	Repair Diaphragm Percutaneous Endo
DP02	0DTF0ZZ	Procedure	ICD-10-PCS	Any	0.855	Resection Right Large Intestine Opn
DP02	0F798DZ	Procedure	ICD-10-PCS	Any	0.855	Dil Cmn Bd W II Dev Nat/Art Op Endo
DP02	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.855	Repair Perineum Skin Ext Approach
DP02	0SPC09Z	Procedure	ICD-10-PCS	Any	0.855	Removal Liner Rt Knee Joint Open
DP02	0SUV09Z	Procedure	ICD-10-PCS	Any	0.855	Suppl Rt Knee Jnt Tib Surf Liner Op
DP02	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.855	Inspection Bladder Nat/Art Opn Endo
DP02	8E0Y0CZ	Procedure	ICD-10-PCS	Any	0.855	Robotic Asstd Proc Lower Ext Opn
DP02	5A1221Z	Procedure	ICD-10-PCS	Any	0.755	Performance Cardiac Output Cont
DP02	02HV33Z	Procedure	ICD-10-PCS	Any	0.714	Insrt Infus Devc Sup Vena Cava Perq
DP02	J1650	Procedure	HCPCS	Frequent	0.714	Injection Enoxaparin Sodium 10 Mg
DP02	K0553	Procedure	HCPCS	Frequent	0.704	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	0SRC0J9	Procedure	ICD-10-PCS	Any	0.672	Repl R Knee Joint Synth Cmentd Open
DP02	K0553	Procedure	HCPCS	Any	0.654	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	K0553	Procedure	HCPCS	Often	0.627	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	H43	Diagnosis	ICD-10-CM	Frequent	0.607	Disorders Of Vitreous Body
DP02	C1017	Dispensing	Drug Class	Frequent	0.569	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	0D164ZA	Procedure	ICD-10-PCS	Any	0.567	Bypass Stomach Jejunum Perq Endo
DP02	0T768DZ	Procedure	ICD-10-PCS	Any	0.567	Dilat Rt Ureter II Nat/Art Op Endo
DP02	C1713	Procedure	HCPCS	Any	0.567	Anchr/Screw Oppos Bn-Bn/Sft Tiss-Bn
DP02	C158	Dispensing	Drug Class	Frequent	0.561	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP02	Q5001	Procedure	HCPCS	Frequent	0.559	Hospice/Home Hlth Care Pt Home/Res

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	05HM33Z	Procedure	ICD-10-PCS	Any	0.532	Ins Infus Dev Rt Intrl Jug Vn Perq
DP02	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.532	Excision Of Left Saphenous Vein Pe
DP02	0B9C8ZX	Procedure	ICD-10-PCS	Any	0.532	Drn Rt Up Lng Lb Nat/Art Op Endo Dx
DP02	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.532	Resect Gallbladder Perq Endo Appr
DP02	0RG20A0	Procedure	ICD-10-PCS	Any	0.532	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP02	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.532	Resection Bilat Fallopiian Tubes Op
DP02	10907ZC	Procedure	ICD-10-PCS	Any	0.532	Drain Amnio Fluid Tx Poc Nat/Art Op
DP02	10D00Z1	Procedure	ICD-10-PCS	Any	0.532	Extraction Poc Low Open
DP02	30233K1	Procedure	ICD-10-PCS	Any	0.532	Tran Nonauto Frzn Plas Periph Vn Pc
DP02	3E02340	Procedure	ICD-10-PCS	Any	0.532	Intro Influenza Vaccne Muscle Perq
DP02	5A1223Z	Procedure	ICD-10-PCS	Any	0.532	Performance Cardiac Pacing Cont
DP02	B24BYZZ	Procedure	ICD-10-PCS	Any	0.532	Usg Heart Aorta Other Contrast
DP02	XW033E5	Procedure	ICD-10-PCS	Any	0.532	Intr Remdesivir Periph Vn Perc Nt5
DP02	C132	Dispensing	Drug Class	Frequent	0.479	Anticonvulsant - Functionalized Amino Acid
DP02	C383	Dispensing	Drug Class	Frequent	0.467	Beta Blockers Cardiac Selective, All
DP02	U0004	Procedure	HCPCS	Any	0.466	2019-Ncov Cronavirus/Covid-19 Any T
DP02	A9502	Procedure	HCPCS	Any	0.459	Tc-99M Tetrofosmin Dx - Study Dose
DP02	A7037	Procedure	HCPCS	Frequent	0.454	Tubing Used W/Pos Arway Press Devc
DP02	C1173	Dispensing	Drug Class	Often	0.445	Unclassified Drug Products
DP02	C1173	Dispensing	Drug Class	Frequent	0.442	Unclassified Drug Products
DP02	C716	Dispensing	Drug Class	Frequent	0.439	Geriatric Vitamins
DP02	G43	Diagnosis	ICD-10-CM	Frequent	0.437	Migraine
DP02	G0145	Procedure	HCPCS	Any	0.434	Scr Cerv/Vag Auto&Mnl Rscr Phys
DP02	J3420	Procedure	HCPCS	Any	0.433	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP02	D22	Diagnosis	ICD-10-CM	Frequent	0.428	Melanocytic Nevi
DP02	C226	Dispensing	Drug Class	Often	0.411	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	C226	Dispensing	Drug Class	Any	0.409	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	A7037	Procedure	HCPCS	Any	0.405	Tubing Used W/Pos Arway Press Devc
DP02	10E0XZZ	Procedure	ICD-10-PCS	Any	0.398	Delivery Products Of Conception Ext
DP02	N95	Diagnosis	ICD-10-CM	Frequent	0.384	Menopausal Oth Perimenopausal D/O
DP02	C328	Dispensing	Drug Class	Frequent	0.379	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	A0429	Procedure	HCPCS	Any	0.375	Amb Service Bls Emergency Transport

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	C383	Dispensing	Drug Class	Often	0.373	Beta Blockers Cardiac Selective, All
DP02	S9083	Procedure	HCPCS	Any	0.367	Global Fee Urgent Care Centers
DP02	A7033	Procedure	HCPCS	Any	0.361	Pillw Nasl Cannula Type Intf Repl
DP02	C1017	Dispensing	Drug Class	Any	0.360	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	I73	Diagnosis	ICD-10-CM	Frequent	0.360	Other Peripheral Vascular Diseases
DP02	A7039	Procedure	HCPCS	Any	0.357	Fltr Non Dispbl Pos Arway Prss Devc
DP02	3E033VJ	Procedure	ICD-10-PCS	Any	0.349	Intro Oth Hormone Periph Vn Perq
DP02	C132	Dispensing	Drug Class	Often	0.349	Anticonvulsant - Functionalized Amino Acid
DP02	C147	Dispensing	Drug Class	Frequent	0.349	Anticonvulsant - Potassium Channel Opener
DP02	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.344	Isolation
DP02	B2151ZZ	Procedure	ICD-10-PCS	Any	0.344	Fluoro Lt Heart Low Osmolar Contrst
DP02	C1157	Dispensing	Drug Class	Any	0.343	Biologicals
DP02	C682	Dispensing	Drug Class	Often	0.342	Factor Viii-Mimetic Agent, Monoclonal Antibody
DP02	C835	Dispensing	Drug Class	Often	0.339	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions,
DP02	N/A	Procedure	ICD-10-PCS	1st Quartile	0.333	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	Q5001	Procedure	HCPCS	Often	0.331	Hospice/Home Hlth Care Pt Home/Res
DP02	J2370	Procedure	HCPCS	Any	0.330	Injection Phenylephrine Hcl To 1 Ml
DP02	C328	Dispensing	Drug Class	Often	0.325	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	A9585	Procedure	HCPCS	Any	0.323	Injection Gadobutrol 0.1 Ml
DP02	G0101	Procedure	HCPCS	Any	0.321	Cerv/Vag Cancr Scr;Pelv&Cln Brst Ex
DP02	J1200	Procedure	HCPCS	Frequent	0.320	Inj Diphenhydramine Hcl To 50 Mg
DP02	Z90	Diagnosis	ICD-10-CM	Frequent	0.319	Acquired Absence Of Organs Nec
DP02	92012	Procedure	CPT	Any	0.316	Eye Exam Establish Patient
DP02	C1037	Dispensing	Drug Class	Frequent	0.314	Phosphate Binders - Calcium-Based
DP02	C1017	Dispensing	Drug Class	Often	0.309	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	C970	Dispensing	Drug Class	Any	0.309	Ophthalmic Antivirals
DP02	N/A	Procedure	ICD-10-PCS	1st Quartile	0.305	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	A7031	Procedure	HCPCS	Frequent	0.301	Fce Mask Interfce Repl Full Mask Ea
DP02	17000	Procedure	CPT	Any	0.300	Destruct Premalg Lesion
DP02	17110	Procedure	CPT	Any	0.300	Destruct B9 Lesion 1-14
DP02	C919	Dispensing	Drug Class	Any	0.299	Nutritional Product - Medical Condition Specific Formulation
DP02	A7030	Procedure	HCPCS	Any	0.296	Full Fce Mask Pos Arway Prss Dev Ea



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	A7031	Procedure	HCPCS	Any	0.295	Fce Mask Interfce Repl Full Mask Ea
DP02	C968	Dispensing	Drug Class	Any	0.293	Ophthalmic Antifungals
DP02	L57	Diagnosis	ICD-10-CM	Any	0.291	Skin Changes Chrn Exps Nonioniz Rad
DP02	17003	Procedure	CPT	Any	0.288	Destruct Premalg Les 2-14
DP02	C792	Dispensing	Drug Class	Frequent	0.287	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP02	M51	Diagnosis	ICD-10-CM	Frequent	0.286	Thoracic Tl & Ls Intervert Disc D/O
DP02	A7030	Procedure	HCPCS	Frequent	0.285	Full Fce Mask Pos Arway Prss Dev Ea
DP02	C970	Dispensing	Drug Class	Frequent	0.285	Ophthalmic Antivirals
DP03	OFT44ZZ	Procedure	ICD-10-PCS	Often	1.414	Resect Gallbladder Perq Endo Appr
DP03	OSG3071	Procedure	ICD-10-PCS	Any	1.414	Fusion Ls Joint Auto Sub Post Pc Op
DP03	ODTN4ZZ	Procedure	ICD-10-PCS	Any	1.294	Resect Sigmoid Colon Perq Endo Appr
DP03	OUT20ZZ	Procedure	ICD-10-PCS	Any	1.294	Resection Bilateral Ovaries Open
DP03	B211YZZ	Procedure	ICD-10-PCS	Often	1.294	Fluoro Multiple Cor Art Oth Cont
DP03	8E0YOCZ	Procedure	ICD-10-PCS	Any	1.191	Robotic Asstd Proc Lower Ext Opn
DP03	J7307	Procedure	HCPCS	Any	1.024	Etonogestrel Impl Sys Incl Impl&Spl
DP03	00HU33Z	Procedure	ICD-10-PCS	Any	0.888	Insert Infus Devc Spinal Canal Perq
DP03	02100Z9	Procedure	ICD-10-PCS	Any	0.888	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP03	0BH17EZ	Procedure	ICD-10-PCS	Any	0.888	Insrt Et Aw Trachea Nat/Art Opening
DP03	0D9670Z	Procedure	ICD-10-PCS	Any	0.888	Drain Stomach Drain Devc Nat/Art Op
DP03	0DBP4ZZ	Procedure	ICD-10-PCS	Any	0.888	Excision Rectum Perq Endo Approach
DP03	OSG30K1	Procedure	ICD-10-PCS	Any	0.888	Fusion Ls Jnt Nauto Sub Post Pc Op
DP03	0T768DZ	Procedure	ICD-10-PCS	Often	0.888	Dilat Rt Ureter II Nat/Art Op Endo
DP03	0T778DZ	Procedure	ICD-10-PCS	Any	0.888	Dil Lt Ureter II Nat/Art Opng Endo
DP03	0T778DZ	Procedure	ICD-10-PCS	Often	0.888	Dil Lt Ureter II Nat/Art Opng Endo
DP03	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.888	Inspection Bladder Nat/Art Opn Endo
DP03	0W9G30Z	Procedure	ICD-10-PCS	Any	0.888	Drain Peritoneal Cav Drain Devc Pc
DP03	0WUF0JZ	Procedure	ICD-10-PCS	Any	0.888	Supplement Adbominal Wall Syn Open
DP03	3E03317	Procedure	ICD-10-PCS	Any	0.888	Intro Oth Thrmbolyt Periph Vn Perq
DP03	3E03317	Procedure	ICD-10-PCS	Often	0.888	Intro Oth Thrmbolyt Periph Vn Perq
DP03	5A1221Z	Procedure	ICD-10-PCS	Frequent	0.888	Performance Cardiac Output Cont
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.888	Isolation
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Often	0.888	Isolation

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	B215YZZ	Procedure	ICD-10-PCS	Often	0.888	Fluoroscopy Lt Heart Other Contrast
DP03	B24BZZ4	Procedure	ICD-10-PCS	Often	0.888	Usg Heart Aorta Transesophageal
DP03	B24BZZZ	Procedure	ICD-10-PCS	Often	0.888	Ultrasonography Of Heart With Aorta
DP03	OUT70ZZ	Procedure	ICD-10-PCS	Any	0.755	Resection Bilat Fallopian Tubes Op
DP03	00NY0ZZ	Procedure	ICD-10-PCS	Any	0.721	Release Lumbar Spinal Cord Open
DP03	OFT44ZZ	Procedure	ICD-10-PCS	Any	0.721	Resect Gallbladder Perq Endo Appr
DP03	OUT90ZZ	Procedure	ICD-10-PCS	Any	0.706	Resection Uterus Open
DP03	C338	Dispensing	Drug Class	Frequent	0.626	Antithyroid Agents
DP03	J0585	Procedure	HCPCS	Often	0.603	Botulinum Toxin Type A Per Unit
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.601	Excision Of Left Saphenous Vein Pe
DP03	10D07Z6	Procedure	ICD-10-PCS	Any	0.601	Extraction Poc Vacuum Nat/Art Opg
DP03	A4281	Procedure	HCPCS	Often	0.601	Tubing For Breast Pump Replacement
DP03	A4284	Procedure	HCPCS	Often	0.601	Brst Shield&Splsh Protctr Pump Repl
DP03	A4285	Procedure	HCPCS	Often	0.601	Polycarbate Bottle Breast Pump Repl
DP03	B2151ZZ	Procedure	ICD-10-PCS	Any	0.601	Fluoro Lt Heart Low Osmolar Contrst
DP03	XW033E5	Procedure	ICD-10-PCS	Any	0.601	Intr Remdesivir Periph Vn Perc Nt5
DP03	C338	Dispensing	Drug Class	Often	0.567	Antithyroid Agents
DP03	J7298	Procedure	HCPCS	Any	0.567	Lng-Rls Intrauterine Coc Sys 52 Mg
DP03	A0398	Procedure	HCPCS	Any	0.524	Als Routine Disposable Supplies
DP03	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.505	Repair Perineum Muscle Open
DP03	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.498	Release Lumbar Nerve Open Approach
DP03	0DB64Z3	Procedure	ICD-10-PCS	Frequent	0.498	Excision Stomach Perq Endo Vertical
DP03	0DB68ZX	Procedure	ICD-10-PCS	Any	0.498	Exc Stomach Nat/Art Opening Endo Dx
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	0.498	Fusion Ls Jnt If Post Appr Ac Open
DP03	0SG30AJ	Procedure	ICD-10-PCS	Frequent	0.498	Fusion Ls Jnt If Post Appr Ac Open
DP03	0SRD069	Procedure	ICD-10-PCS	Any	0.498	Repl Lt Kj Ox Zr Poly Ss Cem Open
DP03	0UB70ZZ	Procedure	ICD-10-PCS	Any	0.498	Excision Bilat Fallopian Tubes Op
DP03	3E0P7GC	Procedure	ICD-10-PCS	Any	0.498	Intro Oth Tx Sbstnc Fe Reprod
DP03	3E0P7VZ	Procedure	ICD-10-PCS	Frequent	0.498	Intro Hormone Fe Repr Nat/Art Open
DP03	3E0R3BZ	Procedure	ICD-10-PCS	Any	0.498	Intro Anest Agent Spinal Canal Perq
DP03	8E0YXBZ	Procedure	ICD-10-PCS	Any	0.498	Computer Assisted Proc Lower Extrem
DP03	ORG20A0	Procedure	ICD-10-PCS	Any	0.483	Fus 2/> Cv Jnt If Ant Appr Ac Open



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	5A1935Z	Procedure	ICD-10-PCS	Any	0.483	Respiratory Vent < 24 Cons Hours
DP03	B2151ZZ	Procedure	ICD-10-PCS	Often	0.483	Fluoro Lt Heart Low Osmolar Contrst
DP03	A4230	Procedure	HCPCS	Often	0.462	Infus Set Ext Insulin Pump Nonndle
DP03	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.424	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	0DB64Z3	Procedure	ICD-10-PCS	Any	0.418	Excision Stomach Perq Endo Vertical
DP03	4A023N7	Procedure	ICD-10-PCS	Any	0.418	Measur Card Sampl Press Lt Heart Pc
DP03	C858	Dispensing	Drug Class	Frequent	0.418	Mouth And Throat - Local Anesthetic Mixtures
DP03	C451	Dispensing	Drug Class	Often	0.409	Dental Product - Dental Aids
DP03	J8499	Procedure	HCPCS	Any	0.407	Prsc Rx Oral Nonchemothapeutic Nos
DP03	C341	Dispensing	Drug Class	Any	0.398	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP03	J1200	Procedure	HCPCS	Frequent	0.396	Inj Diphenhydramine Hcl To 50 Mg
DP03	C703	Dispensing	Drug Class	Frequent	0.380	Gastric Acidifiers
DP03	G0482	Procedure	HCPCS	Frequent	0.380	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP03	E1390	Procedure	HCPCS	Frequent	0.377	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP03	A9585	Procedure	HCPCS	Any	0.374	Injection Gadobutrol 0.1 Ml
DP03	C451	Dispensing	Drug Class	Any	0.374	Dental Product - Dental Aids
DP03	C673	Dispensing	Drug Class	Often	0.365	Estrogens
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.364	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.364	Monitor Prod Concept Cardi Rate Ext
DP03	A4230	Procedure	HCPCS	Any	0.347	Infus Set Ext Insulin Pump Nonndle
DP03	C341	Dispensing	Drug Class	Frequent	0.344	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP03	J1020	Procedure	HCPCS	Any	0.344	Inj Methylprdnisalone Actat 20 Mg
DP03	G0154	Procedure	HCPCS	Frequent	0.329	Dir Skill Nrs Hh/Hospice Ea 15 Min
DP03	S9123	Procedure	HCPCS	Frequent	0.329	Nrs Care Hom; Registered Nurse-Hour
DP03	C451	Dispensing	Drug Class	Frequent	0.322	Dental Product - Dental Aids
DP03	J1200	Procedure	HCPCS	Any	0.322	Inj Diphenhydramine Hcl To 50 Mg
DP03	C768	Dispensing	Drug Class	Frequent	0.321	Insulin-Like Growth Factor-1 (Igf-1)
DP03	L1902	Procedure	HCPCS	Any	0.318	Ank Orth Ank Gauntlt/Sim Prefab Ots
DP03	D50	Diagnosis	ICD-10-CM	Frequent	0.294	Iron Deficiency Anemia
DP03	C42	Dispensing	Drug Class	Frequent	0.293	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	02HV33Z	Procedure	ICD-10-PCS	Any	0.290	Insrt Infus Devc Sup Vena Cava Perq
DP03	A4232	Procedure	HCPCS	Any	0.290	Syringe Ndle Ext Insulin Pump Sterl

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	B2111ZZ	Procedure	ICD-10-PCS	Any	0.290	Fluoro Mx Cor Art Low Osmolar Cont
DP03	C479	Dispensing	Drug Class	Frequent	0.288	Dermatological - Antineoplastic Or Premalig. Lesions - Antimicrotubule
DP03	C341	Dispensing	Drug Class	Often	0.287	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP03	C970	Dispensing	Drug Class	Any	0.287	Ophthalmic Antivirals
DP03	C1081	Dispensing	Drug Class	Frequent	0.286	Rifamycins And Related Derivative Antibiotics
DP03	C226	Dispensing	Drug Class	Frequent	0.285	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP03	C382	Dispensing	Drug Class	Frequent	0.284	Bph Agent- 5-Alpha Reductase Inhib And Alpha-1 Adrenoceptor Antag Comb
DP03	C333	Dispensing	Drug Class	Frequent	0.280	Antipsychotic - Dopamine Antagonists
DP03	A4281	Procedure	HCPCS	Any	0.279	Tubing For Breast Pump Replacement
DP03	A4284	Procedure	HCPCS	Any	0.279	Brst Shield&Splsh Protctr Pump Repl
DP03	A4285	Procedure	HCPCS	Any	0.279	Polycarbonate Bottle Breast Pump Repl
DP03	J2405	Procedure	HCPCS	Any	0.277	Injection Ondansetron Hcl Per 1 Mg
DP04	G8484	Procedure	HCPCS	Any	1.689	Flu Immun Not Adm Reason Not Given
DP04	E162	Diagnosis	ICD-9-CM	Any	1.513	No Description Available
DP04	G0482	Procedure	HCPCS	Frequent	1.379	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP04	G8783	Procedure	HCPCS	Frequent	1.340	Normal Bp Reading Doc F/U Not Rqr
DP04	G8482	Procedure	HCPCS	Any	1.301	Influenza Immun Admin/Prev Recv
DP04	10D00Z1	Procedure	ICD-10-PCS	Any	1.260	Extraction Poc Low Open
DP04	E042	Diagnosis	ICD-9-CM	Any	1.225	No Description Available
DP04	E559	Diagnosis	ICD-9-CM	Any	1.225	No Description Available
DP04	E890	Diagnosis	ICD-9-CM	Any	1.225	Conflagration In Private Dwelling
DP04	J7620	Procedure	HCPCS	Frequent	1.225	Albuterol To 2.5 Mg Ipt To 0.5 Mg
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.225	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	C383	Dispensing	Drug Class	Any	1.195	Beta Blockers Cardiac Selective, All
DP04	G8484	Procedure	HCPCS	Frequent	1.173	Flu Immun Not Adm Reason Not Given
DP04	A7031	Procedure	HCPCS	Frequent	1.126	Fce Mask Interfce Repl Full Mask Ea
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.107	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	N/A	Diagnosis	ICD-9-CM	2nd Quartile	1.043	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	30233N1	Procedure	ICD-10-PCS	Any	0.972	Tran Nauto Red Bld Cll Periph Vn Pc
DP04	A7037	Procedure	HCPCS	Frequent	0.972	Tubing Used W/Pos Arway Press Devc
DP04	G8419	Procedure	HCPCS	Frequent	0.972	Bmi Doc Out NI Parm No F/U Doc No R
DP04	H0036	Procedure	HCPCS	Frequent	0.972	Cmty Psyc Supp Tx Fce-To-Fce-15 Min

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	N93	Diagnosis	ICD-10-CM	Frequent	0.953	Oth Abnormal Uterine Vaginal Bleed
DP04	F10	Diagnosis	ICD-10-CM	Frequent	0.948	Alcohol Related Disorders
DP04	J10	Diagnosis	ICD-10-CM	Frequent	0.937	Flu D/T Oth Id Influenza Virus
DP04	C1173	Dispensing	Drug Class	Frequent	0.929	Unclassified Drug Products
DP04	E0562	Procedure	HCPCS	Often	0.903	Humdifir Heat Used W/Pos Arway Prss
DP04	F12	Diagnosis	ICD-10-CM	Frequent	0.900	Cannabis Related Disorders
DP04	A4253	Procedure	HCPCS	Any	0.895	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	C383	Dispensing	Drug Class	Frequent	0.885	Beta Blockers Cardiac Selective, All
DP04	E0562	Procedure	HCPCS	Frequent	0.885	Humdifir Heat Used W/Pos Arway Prss
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.880	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	A4259	Procedure	HCPCS	Any	0.854	Lancets Per Box Of 100
DP04	C383	Dispensing	Drug Class	Often	0.843	Beta Blockers Cardiac Selective, All
DP04	99051	Procedure	CPT	Any	0.823	Med Serv Eve/Wkend/Holiday
DP04	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.820	Repair Diaphragm Percutaneous Endo
DP04	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.820	Resect Gallbladder Perq Endo Appr
DP04	0U7C7ZZ	Procedure	ICD-10-PCS	Any	0.820	Dilate Cervix Via Natural/Art Opg
DP04	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.820	Resection Bilat Fallopian Tubes Op
DP04	5A1935Z	Procedure	ICD-10-PCS	Any	0.820	Respiratory Vent < 24 Cons Hours
DP04	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.820	Robotic Asstd Proc Trunk Perq Endo
DP04	A4267	Procedure	HCPCS	Frequent	0.820	Contraceptive Supply Condom Male Ea
DP04	E041	Diagnosis	ICD-9-CM	Any	0.820	No Description Available
DP04	E042	Diagnosis	ICD-9-CM	Often	0.820	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Often	0.820	No Description Available
DP04	E6601	Diagnosis	ICD-9-CM	Any	0.820	No Description Available
DP04	E860	Diagnosis	ICD-9-CM	Any	0.820	Accidental Poisoning By Alcohol Nec
DP04	E890	Diagnosis	ICD-9-CM	Often	0.820	Conflagration In Private Dwelling
DP04	G0482	Procedure	HCPCS	Any	0.820	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.820	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	A7030	Procedure	HCPCS	Any	0.790	Full Fce Mask Pos Arway Prss Dev Ea
DP04	C1149	Dispensing	Drug Class	Often	0.746	Anesthetics
DP04	A4253	Procedure	HCPCS	Often	0.738	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	A7030	Procedure	HCPCS	Frequent	0.721	Full Fce Mask Pos Arway Prss Dev Ea

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	N94	Diagnosis	ICD-10-CM	Frequent	0.702	Pain & Oth Cond Fe Gen Orgn & Menst
DP04	L30	Diagnosis	ICD-10-CM	Frequent	0.700	Other And Unspecified Dermatitis
DP04	C1149	Dispensing	Drug Class	Frequent	0.686	Anesthetics
DP04	C919	Dispensing	Drug Class	Any	0.684	Nutritional Product - Medical Condition Specific Formulation
DP04	R51	Diagnosis	ICD-10-CM	Frequent	0.675	Headache
DP04	C996	Dispensing	Drug Class	Any	0.637	Parenteral Nutrition-Amino Acid, Dextrose And Electrolytes Combination
DP04	F12	Diagnosis	ICD-10-CM	Often	0.637	Cannabis Related Disorders
DP04	T1016	Procedure	HCPCS	Frequent	0.637	Case Management Each 15 Mins
DP04	G8420	Procedure	HCPCS	Any	0.621	Bmi Doc Nml Param & No F/U Plan Rqr
DP04	C15	Dispensing	Drug Class	Frequent	0.612	Agents For Opioid Withdrawal, Opioid-Type / Analgesic Opioid Agonists And
DP04	C364	Dispensing	Drug Class	Often	0.612	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	C132	Dispensing	Drug Class	Frequent	0.597	Anticonvulsant - Functionalized Amino Acid
DP04	H0015	Procedure	HCPCS	Frequent	0.597	Alcohol&/Rx Srvc; Intensv Op; Intrvn
DP04	H0015	Procedure	HCPCS	Often	0.597	Alcohol&/Rx Srvc; Intensv Op; Intrvn
DP04	J2930	Procedure	HCPCS	Frequent	0.597	Inj MethylprdnislN Sodim To 125 Mg
DP04	R05	Diagnosis	ICD-10-CM	Frequent	0.597	Cough
DP04	B34	Diagnosis	ICD-10-CM	Frequent	0.589	Viral Infection Of Unspecified Site
DP04	N64	Diagnosis	ICD-10-CM	Any	0.586	Other Disorders Of Breast
DP04	Z51	Diagnosis	ICD-10-CM	Often	0.579	Encounter For Other Aftercare
DP04	C132	Dispensing	Drug Class	Often	0.568	Anticonvulsant - Functionalized Amino Acid
DP04	C42	Dispensing	Drug Class	Often	0.568	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP04	A7037	Procedure	HCPCS	Any	0.567	Tubing Used W/Pos Arway Press Devc
DP04	E1143	Diagnosis	ICD-9-CM	Often	0.567	No Description Available
DP04	G0481	Procedure	HCPCS	Frequent	0.567	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP04	G8420	Procedure	HCPCS	Frequent	0.567	Bmi Doc Nml Param & No F/U Plan Rqr
DP04	G8783	Procedure	HCPCS	Any	0.567	Normal Bp Reading Doc F/U Not Rqr
DP04	H40	Diagnosis	ICD-10-CM	Frequent	0.567	Glaucoma
DP04	N64	Diagnosis	ICD-10-CM	Frequent	0.567	Other Disorders Of Breast
DP04	T1017	Procedure	HCPCS	Often	0.567	Targeted Case Management Ea 15 Mins
DP04	H66	Diagnosis	ICD-10-CM	Frequent	0.557	Suppurative & Uns Otitis Media
DP04	C166	Dispensing	Drug Class	Often	0.555	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP04	C42	Dispensing	Drug Class	Any	0.551	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	009U3ZX	Procedure	ICD-10-PCS	Any	0.532	Drainage Spinal Canal Perq Appr Dx
DP04	A0100	Procedure	HCPCS	Frequent	0.532	Nonemergency Transportation; Taxi
DP04	C1127	Dispensing	Drug Class	Frequent	0.532	Vaginal Antifungals
DP04	C792	Dispensing	Drug Class	Frequent	0.532	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP04	E1122	Diagnosis	ICD-9-CM	Any	0.532	No Description Available
DP04	E1143	Diagnosis	ICD-9-CM	Any	0.532	No Description Available
DP04	J2060	Procedure	HCPCS	Any	0.532	Injection Lorazepam 2 Mg
DP04	J44	Diagnosis	ICD-10-CM	Often	0.532	Other Copd
DP04	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.532	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.532	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	D64	Diagnosis	ICD-10-CM	Frequent	0.520	Other Anemias
DP04	C1033	Dispensing	Drug Class	Any	0.515	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP04	N/A	Procedure	ICD-10-PCS	1st Quartile	0.509	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	1st Quartile	0.509	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	C364	Dispensing	Drug Class	Frequent	0.506	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	84478	Procedure	CPT	Any	0.505	Assay Of Triglycerides
DP05	C1081	Dispensing	Drug Class	Frequent	1.625	Rifamycins And Related Derivative Antibiotics
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	1.443	Delivery Products Of Conception Ext
DP05	3E0T3BZ	Procedure	ICD-10-PCS	Any	1.265	Intro Anes Agt Periph Nrv&Plexi Pc
DP05	A9577	Procedure	HCPCS	Any	1.106	Inj Gadobenate Dimeglumine Per MI
DP05	A9500	Procedure	HCPCS	Any	0.932	Tc-99M Sestamibi Dx Per Study Dose
DP05	A7031	Procedure	HCPCS	Frequent	0.863	Fce Mask Interfce Repl Full Mask Ea
DP05	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.860	Exc Sigmoid Colon Perq Endo Appr
DP05	0SRD0J9	Procedure	ICD-10-PCS	Any	0.860	Repl L Knee Joint Synth Cmentd Open
DP05	10H07YZ	Procedure	ICD-10-PCS	Any	0.860	Insertion Other Device Poc
DP05	J7050	Procedure	HCPCS	Frequent	0.860	Infus Normal Saline Solution 250 Cc
DP05	C420	Dispensing	Drug Class	Any	0.750	Chelating Agents - Others / Pharmaceutical Adjuvant - Preservatives
DP05	A7033	Procedure	HCPCS	Frequent	0.726	Pillw Nasl Cannula Type Intf Repl
DP05	D2792	Procedure	HCPCS	Any	0.716	Crown - Full Cast Noble Metal
DP05	C669	Dispensing	Drug Class	Frequent	0.709	Emergency Contraceptive Combinations
DP05	C42	Dispensing	Drug Class	Frequent	0.681	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C132	Dispensing	Drug Class	Often	0.660	Anticonvulsant - Functionalized Amino Acid

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	A7037	Procedure	HCPCS	Any	0.649	Tubing Used W/Pos Arway Press Devc
DP05	C1149	Dispensing	Drug Class	Frequent	0.644	Anesthetics
DP05	C338	Dispensing	Drug Class	Frequent	0.644	Antithyroid Agents
DP05	A7037	Procedure	HCPCS	Frequent	0.632	Tubing Used W/Pos Arway Press Devc
DP05	D22	Diagnosis	ICD-10-CM	Frequent	0.632	Melanocytic Nevi
DP05	C996	Dispensing	Drug Class	Any	0.629	Parenteral Nutrition-Amino Acid, Dextrose And Electrolytes Combination
DP05	C451	Dispensing	Drug Class	Frequent	0.622	Dental Product - Dental Aids
DP05	G0283	Procedure	HCPCS	Frequent	0.622	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	J1071	Procedure	HCPCS	Frequent	0.619	Inj Testosterone Cypionate 1 Mg
DP05	J7120	Procedure	HCPCS	Any	0.614	Ringers Lactate Infusion To 1000 Cc
DP05	A7032	Procedure	HCPCS	Frequent	0.607	Cushn Nasal Mask Intf Repl Only Ea
DP05	G0378	Procedure	HCPCS	Frequent	0.602	Hospital Observatn Service Per Hour
DP05	C1149	Dispensing	Drug Class	Often	0.596	Anesthetics
DP05	C169	Dispensing	Drug Class	Often	0.590	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	A7030	Procedure	HCPCS	Any	0.573	Full Fce Mask Pos Arway Prss Dev Ea
DP05	C341	Dispensing	Drug Class	Often	0.572	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP05	M47	Diagnosis	ICD-10-CM	Frequent	0.553	Spondylosis
DP05	0D9670Z	Procedure	ICD-10-PCS	Any	0.527	Drain Stomach Drain Devc Nat/Art Op
DP05	A7030	Procedure	HCPCS	Frequent	0.527	Full Fce Mask Pos Arway Prss Dev Ea
DP05	C1033	Dispensing	Drug Class	Frequent	0.527	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP05	C1173	Dispensing	Drug Class	Often	0.527	Unclassified Drug Products
DP05	C364	Dispensing	Drug Class	Frequent	0.527	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP05	G0442	Procedure	HCPCS	Any	0.527	Annual Alcohol Misuse Screen 15 Min
DP05	G0481	Procedure	HCPCS	Frequent	0.527	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	C703	Dispensing	Drug Class	Frequent	0.523	Gastric Acidifiers
DP05	C1173	Dispensing	Drug Class	Any	0.507	Unclassified Drug Products
DP05	C132	Dispensing	Drug Class	Any	0.493	Anticonvulsant - Functionalized Amino Acid
DP05	J2550	Procedure	HCPCS	Any	0.493	Injection Promethazine Hcl To 50 Mg
DP05	C1081	Dispensing	Drug Class	Often	0.487	Rifamycins And Related Derivative Antibiotics
DP05	C169	Dispensing	Drug Class	Frequent	0.487	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	J1071	Procedure	HCPCS	Often	0.485	Inj Testosterone Cypionate 1 Mg
DP05	C451	Dispensing	Drug Class	Often	0.475	Dental Product - Dental Aids



**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C451	Dispensing	Drug Class	Any	0.472	Dental Product - Dental Aids
DP05	C970	Dispensing	Drug Class	Frequent	0.472	Ophthalmic Antivirals
DP05	C768	Dispensing	Drug Class	Frequent	0.469	Insulin-Like Growth Factor-1 (Igf-1)
DP05	M51	Diagnosis	ICD-10-CM	Frequent	0.467	Thoracic Tl & Ls Intervert Disc D/O
DP05	C1081	Dispensing	Drug Class	Any	0.466	Rifamycins And Related Derivative Antibiotics
DP05	C100	Dispensing	Drug Class	Frequent	0.462	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2)
DP05	10D00Z1	Procedure	ICD-10-PCS	Any	0.454	Extraction Poc Low Open
DP05	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.454	Robotic Asstd Proc Trunk Perq Endo
DP05	C679	Dispensing	Drug Class	Frequent	0.452	Factor Ix Preparations
DP05	C679	Dispensing	Drug Class	Often	0.452	Factor Ix Preparations
DP05	R63	Diagnosis	ICD-10-CM	Frequent	0.445	Sx Signs Concerning Food FI Intake
DP05	92012	Procedure	CPT	Frequent	0.444	Eye Exam Establish Patient
DP05	A7035	Procedure	HCPCS	Any	0.441	Headgear Used W/Pos Arway Prss Devc
DP05	C145	Dispensing	Drug Class	Often	0.426	Anticonvulsant - Phenyltriazine Derivatives
DP05	J11	Diagnosis	ICD-10-CM	Any	0.423	Influenza Due To Unidentified Infla
DP05	C371	Dispensing	Drug Class	Frequent	0.421	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular
DP05	C858	Dispensing	Drug Class	Frequent	0.421	Mouth And Throat - Local Anesthetic Mixtures
DP05	C341	Dispensing	Drug Class	Frequent	0.418	Antitussives - Non-Opioid / Minerals And Electrolytes - Iron And Combinations
DP05	R35	Diagnosis	ICD-10-CM	Frequent	0.409	Polyuria
DP05	G8482	Procedure	HCPCS	Any	0.405	Influenza Immun Admin/Prev Recv
DP05	K29	Diagnosis	ICD-10-CM	Frequent	0.404	Gastritis And Duodenitis
DP05	J7050	Procedure	HCPCS	Any	0.403	Infus Normal Saline Solution 250 Cc
DP05	A7031	Procedure	HCPCS	Any	0.401	Fce Mask Interfce Repl Full Mask Ea
DP05	C147	Dispensing	Drug Class	Frequent	0.393	Anticonvulsant - Potassium Channel Opener
DP05	C382	Dispensing	Drug Class	Any	0.393	Bph Agent- 5-Alpha Reductase Inhib And Alpha-1 Adrenoceptor Antag Comb
DP05	99441	Procedure	CPT	Any	0.392	Phone E/M Phys/Qhp 5-10 Min
DP05	C1163	Dispensing	Drug Class	Any	0.390	Antibiotics
DP05	86140	Procedure	CPT	Any	0.383	C-Reactive Protein
DP05	97112	Procedure	CPT	Frequent	0.380	Neuromuscular Reeducation
DP05	86376	Procedure	CPT	Any	0.379	Microsomal Antibody Each
DP05	R68	Diagnosis	ICD-10-CM	Any	0.375	Other General Symptoms And Signs
DP05	G8510	Procedure	HCPCS	Any	0.374	Scr Depr Doc Neg A F/U Plan Not Rqr

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C147	Dispensing	Drug Class	Often	0.372	Anticonvulsant - Potassium Channel Opener
DP05	C164	Dispensing	Drug Class	Frequent	0.372	Antidepressant - Serotonin-2 Antagonist-Reuptake Inhibitors (Saris)
DP05	R42	Diagnosis	ICD-10-CM	Frequent	0.372	Dizziness And Giddiness
DP05	C919	Dispensing	Drug Class	Any	0.367	Nutritional Product - Medical Condition Specific Formulation
DP05	J1100	Procedure	HCPCS	Any	0.367	Inj Dexmethoson Sodim Phoshate 1 Mg
DP05	Z80	Diagnosis	ICD-10-CM	Frequent	0.359	Fam Hx Primary Malignant Neoplasm
DP05	C716	Dispensing	Drug Class	Any	0.358	Geriatric Vitamins
DP05	J2930	Procedure	HCPCS	Any	0.357	Inj MethylprdnislN Sodim To 125 Mg
DP05	Z13	Diagnosis	ICD-10-CM	Frequent	0.357	Enc Screening For Oth Dz&Disorders
DP05	C371	Dispensing	Drug Class	Often	0.354	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular
DP05	C1004	Dispensing	Drug Class	Frequent	0.349	Periodontal Product - Anti-Infectives
DP05	G0439	Procedure	HCPCS	Any	0.349	Annual Wellness Vst; Pps Subsqst Vst
DP05	96375	Procedure	CPT	Any	0.347	Tx/Pro/Dx Inj New Drug Addon
DP05	A7046	Procedure	HCPCS	Any	0.344	Watr Chamb Humdifir Used W/Pos Arwa
DP05	C858	Dispensing	Drug Class	Often	0.344	Mouth And Throat - Local Anesthetic Mixtures
DP05	G0103	Procedure	HCPCS	Any	0.344	Prostate Cancer Screening; Psa Test
DP05	C224	Dispensing	Drug Class	Any	0.335	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP05	D1208	Procedure	HCPCS	Any	0.334	Topical Application Of Fluoride
DP05	83735	Procedure	CPT	Any	0.333	Assay Of Magnesium
DP05	J32	Diagnosis	ICD-10-CM	Frequent	0.330	Chronic Sinusitis
DP06	3E03329	Procedure	ICD-10-PCS	Any	1.855	Intro Oth Anti-Infec Periph Vn Perq
DP06	5A1945Z	Procedure	ICD-10-PCS	Any	1.568	Respiratory Vent 24-96 Consec Hours
DP06	5A1935Z	Procedure	ICD-10-PCS	Any	1.385	Respiratory Vent < 24 Cons Hours
DP06	ORG20A0	Procedure	ICD-10-PCS	Any	1.323	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP06	OSPC0JZ	Procedure	ICD-10-PCS	Any	1.323	Remv Synth Subst Rt Knee Joint Open
DP06	OSPD0JZ	Procedure	ICD-10-PCS	Any	1.323	Remv Synth Subst Lt Knee Joint Open
DP06	OTC68ZZ	Procedure	ICD-10-PCS	Any	1.323	Extirpat Mattr Rt Ureter Endo
DP06	3E0F7SF	Procedure	ICD-10-PCS	Any	1.323	Intro Oth Gas Resp Tract Nat/Art Op
DP06	00NY0ZZ	Procedure	ICD-10-PCS	Any	1.162	Release Lumbar Spinal Cord Open
DP06	ORRK00Z	Procedure	ICD-10-PCS	Any	1.162	Rep L Shldr Jnt Rvs Bl&Sck Syn Open
DP06	OSP004Z	Procedure	ICD-10-PCS	Any	1.162	Removal If Devc Lumb Vert Joint Opn
DP06	Ost20ZZ	Procedure	ICD-10-PCS	Any	1.162	Resect Lumbar Vertebral Disc Open



**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	5A1221Z	Procedure	ICD-10-PCS	Any	1.162	Performance Cardiac Output Cont
DP06	07B74ZX	Procedure	ICD-10-PCS	Any	0.917	Excision Thorax Lymph Perq Endo Dx
DP06	0WUF0JZ	Procedure	ICD-10-PCS	Any	0.917	Supplement Adbominal Wall Syn Open
DP06	B2181ZZ	Procedure	ICD-10-PCS	Any	0.917	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP06	B241ZZ3	Procedure	ICD-10-PCS	Any	0.917	Ultrasonography Mx Cor Art Ivasc
DP06	0BH18EZ	Procedure	ICD-10-PCS	Any	0.875	Insert Et Aw Trach Nat/Art Op Endo
DP06	0DB98ZX	Procedure	ICD-10-PCS	Any	0.875	Ex Duodenum Nat/Art Opening Endo Dx
DP06	0RRK0JZ	Procedure	ICD-10-PCS	Any	0.875	Repl Lt Shldr Jnt Synth Subst Opn
DP06	0TC78ZZ	Procedure	ICD-10-PCS	Any	0.875	Extirpation Matter Lt Ureter Endo
DP06	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.875	Inspection Bladder Nat/Art Opn Endo
DP06	4A03X5D	Procedure	ICD-10-PCS	Any	0.875	Measurement Art Flw Intracrn Ext Ap
DP06	4A10X4Z	Procedure	ICD-10-PCS	Any	0.875	Monitor Central Nerv Elect Act Ext
DP06	B246ZZ4	Procedure	ICD-10-PCS	Any	0.875	Usg Rt & Lt Heart Transesophageal
DP06	Q0092	Procedure	HCPCS	Frequent	0.875	Set-Up Portable X-Ray Equipment
DP06	C45	Dispensing	Drug Class	Frequent	0.791	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	0BH17EZ	Procedure	ICD-10-PCS	Any	0.757	Insrt Et Aw Trachea Nat/Art Opening
DP06	C1017	Dispensing	Drug Class	Frequent	0.757	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	C44	Dispensing	Drug Class	Frequent	0.731	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	Q0092	Procedure	HCPCS	Any	0.701	Set-Up Portable X-Ray Equipment
DP06	0W9930Z	Procedure	ICD-10-PCS	Any	0.692	Drainage Rt Pleural Cav Drn Devc Pc
DP06	02703ZZ	Procedure	ICD-10-PCS	Any	0.630	Dilation Coronary Artery 1 Art Perq
DP06	027135Z	Procedure	ICD-10-PCS	Any	0.630	Dil Ca 2 Art 2 Rx-Elut II Devc Perq
DP06	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.630	Isolation
DP06	B2151ZZ	Procedure	ICD-10-PCS	Any	0.587	Fluoro Lt Heart Low Osmolar Contrst
DP06	5A09357	Procedure	ICD-10-PCS	Any	0.564	Asst W/Resp Vent < 24 Con Hour Cpap
DP06	027035Z	Procedure	ICD-10-PCS	Any	0.561	Dilat Ca 1 Art 2 Rx-Elut II Devc Pc
DP06	0T768DZ	Procedure	ICD-10-PCS	Any	0.561	Dilat Rt Ureter II Nat/Art Op Endo
DP06	B215YZZ	Procedure	ICD-10-PCS	Any	0.561	Fluoroscopy Lt Heart Other Contrast
DP06	02HV33Z	Procedure	ICD-10-PCS	Any	0.556	Insrt Infus Devc Sup Vena Cava Perq
DP06	B24BZZ4	Procedure	ICD-10-PCS	Any	0.549	Usg Heart Aorta Transesophageal
DP06	C64	Dispensing	Drug Class	Frequent	0.515	Androgens
DP06	C168	Dispensing	Drug Class	Frequent	0.514	Antidepressant Combinations

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	05HB33Z	Procedure	ICD-10-PCS	Any	0.512	Ins Infus Dev Rt Basilic Vn Perq
DP06	0F798DZ	Procedure	ICD-10-PCS	Any	0.512	Dil Cmn Bd W II Dev Nat/Art Op Endo
DP06	ORRJOJZ	Procedure	ICD-10-PCS	Any	0.512	Repl Rt Shldr Jnt Synth Subst Opn
DP06	OUT20ZZ	Procedure	ICD-10-PCS	Any	0.512	Resection Bilateral Ovaries Open
DP06	OUT70ZZ	Procedure	ICD-10-PCS	Any	0.512	Resection Bilat Fallopian Tubes Op
DP06	C45	Dispensing	Drug Class	Often	0.496	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	C919	Dispensing	Drug Class	Frequent	0.481	Nutritional Product - Medical Condition Specific Formulation
DP06	B2131ZZ	Procedure	ICD-10-PCS	Any	0.475	Fluoro Mx Ca Bp Gft Low Osmlr Cont
DP06	XW033E5	Procedure	ICD-10-PCS	Any	0.475	Intr Remdesivir Periph Vn Perc Nt5
DP06	03CLOZZ	Procedure	ICD-10-PCS	Any	0.469	Extirpat Matter Left Ica Open Appr
DP06	0BJ08ZZ	Procedure	ICD-10-PCS	Any	0.469	Inspection Tbt Nat/Art Opening Endo
DP06	0DBL8ZX	Procedure	ICD-10-PCS	Any	0.469	Ex Trns Colon Nat Or Art Op Endo Dx
DP06	0SG00AJ	Procedure	ICD-10-PCS	Any	0.469	Fusion Lv Joint If Post Appr Ac Opn
DP06	0W3P8ZZ	Procedure	ICD-10-PCS	Any	0.469	Control Gastrointest Nat/Art Endo
DP06	0W993ZZ	Procedure	ICD-10-PCS	Any	0.469	Drainage Right Pleural Cavity Perq
DP06	3E033GC	Procedure	ICD-10-PCS	Any	0.469	Intro Oth Tx Sbstnc Periph Vn Perq
DP06	C338	Dispensing	Drug Class	Frequent	0.457	Antithyroid Agents
DP06	C1017	Dispensing	Drug Class	Often	0.453	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	G0481	Procedure	HCPCS	Frequent	0.447	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP06	C1017	Dispensing	Drug Class	Any	0.423	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	C338	Dispensing	Drug Class	Often	0.416	Antithyroid Agents
DP06	C158	Dispensing	Drug Class	Frequent	0.412	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	C64	Dispensing	Drug Class	Any	0.408	Androgens
DP06	C44	Dispensing	Drug Class	Often	0.405	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	G8730	Procedure	HCPCS	Frequent	0.386	Pain Assess Pos Tool F/U Plan Doc
DP06	M62	Diagnosis	ICD-10-CM	Frequent	0.379	Other Disorders Of Muscle
DP06	ORRJ00Z	Procedure	ICD-10-PCS	Any	0.378	Rep R Shldr Jnt Rvs Bl&Sck Syn Open
DP06	C221	Dispensing	Drug Class	Frequent	0.378	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents
DP06	C970	Dispensing	Drug Class	Frequent	0.371	Ophthalmic Antivirals
DP06	OSRD0J9	Procedure	ICD-10-PCS	Any	0.364	Repl L Knee Joint Synth Cmentd Open
DP06	C703	Dispensing	Drug Class	Frequent	0.362	Gastric Acidifiers
DP06	C44	Dispensing	Drug Class	Any	0.361	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors

**Appendix G. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, No Evidence of Oseltamivir Use with a Days Supply  $\geq 0$  on Days 0 to 7, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	C835	Dispensing	Drug Class	Frequent	0.358	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions,
DP06	G0481	Procedure	HCPCS	Any	0.358	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP06	C338	Dispensing	Drug Class	Any	0.357	Antithyroid Agents
DP06	Q3014	Procedure	HCPCS	Any	0.354	Telehealth Orig Site Facility Fee
DP06	84481	Procedure	CPT	Any	0.348	Free Assay (Ft-3)
DP06	02L73DK	Procedure	ICD-10-PCS	Any	0.336	Occlusion Laa W/Intralum Devc Perq
DP06	02RF38Z	Procedure	ICD-10-PCS	Any	0.336	Repl Aortic Valv Zooplstc Tiss Perq
DP06	G0483	Procedure	HCPCS	Frequent	0.332	Dr Tst Defin Dr Id M P D 22/M Dr Cl
DP06	U0004	Procedure	HCPCS	Frequent	0.329	2019-Ncov Cronavirus/Covid-19 Any T
DP06	C333	Dispensing	Drug Class	Any	0.326	Antipsychotic - Dopamine Antagonists
DP06	C333	Dispensing	Drug Class	Frequent	0.322	Antipsychotic - Dopamine Antagonists
DP06	C168	Dispensing	Drug Class	Often	0.321	Antidepressant Combinations
DP06	G0463	Procedure	HCPCS	Frequent	0.320	Hos Op Clin Visit Assess & Mgmt Pt
DP06	G1004	Procedure	HCPCS	Frequent	0.320	Cdsm Ndsc Defined Medicare Auc Prog
DP06	B211YZZ	Procedure	ICD-10-PCS	Any	0.319	Fluoro Multiple Cor Art Oth Cont
DP06	G8731	Procedure	HCPCS	Any	0.319	Pn Asmt Tool Doc Neg No F/U Pln Rqr
DP06	C174	Dispensing	Drug Class	Frequent	0.317	Antidiarrheal - Antiperistaltic Agents
DP06	G9551	Procedure	HCPCS	Any	0.312	F Rpt Imag Stdy W/O Incdntl Les Ntd
DP06	B2111ZZ	Procedure	ICD-10-PCS	Any	0.306	Fluoro Mx Cor Art Low Osmolar Cont
DP06	C1004	Dispensing	Drug Class	Frequent	0.303	Periodontal Product - Anti-Infectives
DP06	G8950	Procedure	HCPCS	Frequent	0.302	Prehtn/Htn Bp Doc & Indicat F/U Doc
DP06	C64	Dispensing	Drug Class	Often	0.301	Androgens
DP06	J20	Diagnosis	ICD-10-CM	Frequent	0.301	Acute Bronchitis
DP06	C376	Dispensing	Drug Class	Frequent	0.298	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st ( $\leq 25$ th), 2nd ( $>25$ th but  $\leq 50$ th), 3rd ( $>50$ th but  $\leq 75$ th), and 4th ( $>75$ th).

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	027034Z	Procedure	ICD-10-PCS	Any	1.957	Dil Ca 1 Art Rx-Elut II Devc Perq
DP01	0W8NXZZ	Procedure	ICD-10-PCS	Any	1.444	Division Female Perineum External
DP01	0SG00AJ	Procedure	ICD-10-PCS	Any	1.264	Fusion Lv Joint If Post Appr Ac Opn
DP01	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.264	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	B24BZZ4	Procedure	ICD-10-PCS	Any	1.221	Usg Heart Aorta Transesophageal
DP01	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.977	Monitor Prod Concept Cardi Rate Ext
DP01	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.933	Resection Uterus Open
DP01	01NBOZZ	Procedure	ICD-10-PCS	Any	0.859	Release Lumbar Nerve Open Approach
DP01	027035Z	Procedure	ICD-10-PCS	Any	0.859	Dilat Ca 1 Art 2 Rx-Elut II Devc Pc
DP01	0DB68ZX	Procedure	ICD-10-PCS	Any	0.859	Exc Stomach Nat/Art Opening Endo Dx
DP01	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.859	Inspect Upper Intestine Tract Endo
DP01	0HPT0JZ	Procedure	ICD-10-PCS	Any	0.859	Removal Synth Subst Rt Breast Open
DP01	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.859	Inspection Bladder Nat/Art Opn Endo
DP01	10H07YZ	Procedure	ICD-10-PCS	Any	0.859	Insertion Other Device Poc
DP01	4A10X4Z	Procedure	ICD-10-PCS	Any	0.859	Monitor Central Nerv Elect Act Ext
DP01	B2151ZZ	Procedure	ICD-10-PCS	Any	0.859	Fluoro Lt Heart Low Osmolar Contrst
DP01	B24BZZZ	Procedure	ICD-10-PCS	Any	0.859	Ultrasonography Of Heart With Aorta
DP01	C669	Dispensing	Drug Class	Frequent	0.846	Emergency Contraceptive Combinations
DP01	3E0P7VZ	Procedure	ICD-10-PCS	Any	0.815	Intro Hormone Fe Repr Nat/Art Open
DP01	G8417	Procedure	HCPCS	Frequent	0.815	Bmi Doc Abv Nml Param & F/U Pln Doc
DP01	0UT70ZZ	Procedure	ICD-10-PCS	Any	0.751	Resection Bilat Fallopian Tubes Op
DP01	C1894	Procedure	HCPCS	Any	0.682	Intrudcr/Sheath Not Guid Non-Lasr
DP01	C1033	Dispensing	Drug Class	Frequent	0.653	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP01	C132	Dispensing	Drug Class	Frequent	0.617	Anticonvulsant - Functionalized Amino Acid
DP01	G0399	Procedure	HCPCS	Any	0.615	Hst Type Iii Prtble Mon Min 4 Ch
DP01	A9500	Procedure	HCPCS	Any	0.588	Tc-99M Sestamibi Dx Per Study Dose
DP01	7809	Diagnosis	ICD-9-CM	Frequent	0.571	Other General Symptoms
DP01	0DB98ZX	Procedure	ICD-10-PCS	Any	0.571	Ex Duodenum Nat/Art Opening Endo Dx
DP01	J2765	Procedure	HCPCS	Any	0.559	Inj Metoclopramide Hcl To 10 Mg
DP01	C338	Dispensing	Drug Class	Frequent	0.554	Antithyroid Agents
DP01	C328	Dispensing	Drug Class	Frequent	0.551	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	01N10ZZ	Procedure	ICD-10-PCS	Any	0.528	Release Cervical Nerve Open Apprch

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	05HY33Z	Procedure	ICD-10-PCS	Any	0.528	Insrt Infus Devc Up Vn Perq Appr
DP01	0RT30ZZ	Procedure	ICD-10-PCS	Any	0.528	Resect Cerv Vert Disc Opn Approach
DP01	0SG10AJ	Procedure	ICD-10-PCS	Any	0.528	Fus 2/> Lv Jnt If Post Appr Ac Open
DP01	10H073Z	Procedure	ICD-10-PCS	Any	0.528	Insertion Monitoring Electrode Poc
DP01	N/A	Diagnosis	ICD-9-CM	4rd Quartile	0.528	Utilization Of All ICD-9-Cm Diagnosis Codes
DP01	C669	Dispensing	Drug Class	Often	0.512	Emergency Contraceptive Combinations
DP01	C221	Dispensing	Drug Class	Frequent	0.499	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents
DP01	G0480	Procedure	HCPCS	Frequent	0.473	Dr Tst Defin Dr Id M P D 1-7 Dr Cl
DP01	7809	Diagnosis	ICD-9-CM	Often	0.453	Other General Symptoms
DP01	5A09357	Procedure	ICD-10-PCS	Any	0.453	Asst W/Resp Vent < 24 Con Hour Cpap
DP01	J1071	Procedure	HCPCS	Frequent	0.453	Inj Testosterone Cypionate 1 Mg
DP01	J3420	Procedure	HCPCS	Frequent	0.453	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP01	C333	Dispensing	Drug Class	Often	0.451	Antipsychotic - Dopamine Antagonists
DP01	J2785	Procedure	HCPCS	Any	0.432	Injection Regadenoson 0.1 Mg
DP01	C328	Dispensing	Drug Class	Any	0.424	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	A4550	Procedure	HCPCS	Any	0.418	Surgical Trays
DP01	G2023	Procedure	HCPCS	Frequent	0.407	Spec Clct Sars-Cov2 Covid19 Any Src
DP01	C64	Dispensing	Drug Class	Frequent	0.405	Androgens
DP01	A9502	Procedure	HCPCS	Any	0.400	Tc-99M Tetrofosmin Dx - Study Dose
DP01	C716	Dispensing	Drug Class	Frequent	0.399	Geriatric Vitamins
DP01	C95	Dispensing	Drug Class	Often	0.399	Antianginal And Anti-Ischemic Agents
DP01	C168	Dispensing	Drug Class	Frequent	0.396	Antidepressant Combinations
DP01	C829	Dispensing	Drug Class	Frequent	0.381	Minerals And Electrolytes - Manganese And Combinations
DP01	C328	Dispensing	Drug Class	Often	0.379	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP01	G8420	Procedure	HCPCS	Frequent	0.373	Bmi Doc Nml Param & No F/U Plan Rqr
DP01	C333	Dispensing	Drug Class	Any	0.372	Antipsychotic - Dopamine Antagonists
DP01	Q9966	Procedure	HCPCS	Any	0.367	Locm 200-299 Mg/MI I Conc Per MI
DP01	C451	Dispensing	Drug Class	Frequent	0.356	Dental Product - Dental Aids
DP01	80307	Procedure	CPT	Frequent	0.348	Drug Test Prsmv Chem Anyzr
DP01	0ST20ZZ	Procedure	ICD-10-PCS	Any	0.345	Resect Lumbar Vertebral Disc Open
DP01	C1115	Dispensing	Drug Class	Any	0.344	Urinary Retention Therapy - Parasympathomimetic Agents
DP01	97112	Procedure	CPT	Frequent	0.338	Neuromuscular Reeducation

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	C1149	Dispensing	Drug Class	Frequent	0.335	Anesthetics
DP01	G0442	Procedure	HCPCS	Any	0.329	Annual Alcohol Misuse Screen 15 Min
DP01	C333	Dispensing	Drug Class	Frequent	0.323	Antipsychotic - Dopamine Antagonists
DP01	G8417	Procedure	HCPCS	Any	0.321	Bmi Doc Abv Nml Param & F/U Pln Doc
DP01	C382	Dispensing	Drug Class	Frequent	0.317	Bph Agent- 5-Alpha Reductase Inhib And Alpha-1 Adrenoceptor Antag Comb
DP01	A7039	Procedure	HCPCS	Any	0.315	Fltr Non Dispbl Pos Arway Prss Devc
DP01	A9579	Procedure	HCPCS	Any	0.309	Inj Gadolinium Mr Contrast Nos MI
DP01	C132	Dispensing	Drug Class	Often	0.307	Anticonvulsant - Functionalized Amino Acid
DP01	C137	Dispensing	Drug Class	Frequent	0.304	Anticonvulsant - Gaba Analogs / Postherpetic Neuralgia Agents
DP01	C337	Dispensing	Drug Class	Frequent	0.304	Antiseptic - Alcohol And Topical Anesthetic Combinations / Dermatological -
DP01	B2111ZZ	Procedure	ICD-10-PCS	Any	0.299	Fluoro Mx Cor Art Low Osmolar Cont
DP01	C414	Dispensing	Drug Class	Frequent	0.296	Chelating Agents - Copper / Disease Modifying Anti-Rheumatoid Drugs
DP01	C168	Dispensing	Drug Class	Often	0.293	Antidepressant Combinations
DP01	C1769	Procedure	HCPCS	Any	0.291	Guide Wire
DP01	86140	Procedure	CPT	Any	0.288	C-Reactive Protein
DP01	85652	Procedure	CPT	Any	0.284	Rbc Sed Rate Automated
DP01	4A023N7	Procedure	ICD-10-PCS	Any	0.283	Measur Card Sampl Press Lt Heart Pc
DP01	C703	Dispensing	Drug Class	Frequent	0.283	Gastric Acidifiers
DP01	83690	Procedure	CPT	Any	0.281	Assay Of Lipase
DP01	C1173	Dispensing	Drug Class	Frequent	0.281	Unclassified Drug Products
DP01	C1119	Dispensing	Drug Class	Frequent	0.279	Uterine Relaxant - Beta-Adrenergic Agents
DP01	C174	Dispensing	Drug Class	Frequent	0.278	Antidiarrheal - Antiperistaltic Agents
DP01	A7030	Procedure	HCPCS	Any	0.275	Full Fce Mask Pos Arway Prss Dev Ea
DP01	74177	Procedure	CPT	Often	0.274	Ct Abd & Pelv W/Contrast
DP01	83735	Procedure	CPT	Any	0.273	Assay Of Magnesium
DP01	R10	Diagnosis	ICD-10-CM	Frequent	0.273	Abdominal And Pelvic Pain
DP01	C42	Dispensing	Drug Class	Frequent	0.272	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP01	74177	Procedure	CPT	Any	0.269	Ct Abd & Pelv W/Contrast
DP01	93306	Procedure	CPT	Frequent	0.268	Tte W/Doppler Complete
DP01	G0481	Procedure	HCPCS	Any	0.268	Dr Tst Defn Dr Id M P D 8-14 Dr Cl
DP01	G0482	Procedure	HCPCS	Any	0.263	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP01	C917	Dispensing	Drug Class	Frequent	0.260	Nutritional Product - Msud Specific Formulation



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	J7050	Procedure	HCPCS	Any	0.257	Infus Normal Saline Solution 250 Cc
DP01	C1116	Dispensing	Drug Class	Often	0.251	Urinary Tract Protective Agents Used In Conjunction With Chemotherapy
DP01	J1071	Procedure	HCPCS	Often	0.249	Inj Testosterone Cypionate 1 Mg
DP01	C371	Dispensing	Drug Class	Frequent	0.242	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular
DP02	0FT44ZZ	Procedure	ICD-10-PCS	Any	1.173	Resect Gallbladder Perq Endo Appr
DP02	027034Z	Procedure	ICD-10-PCS	Any	0.906	Dil Ca 1 Art Rx-Elut II Devc Perq
DP02	0B9D8ZX	Procedure	ICD-10-PCS	Any	0.906	Drn Rt Mid Lung Lb Nat/Art Op En Dx
DP02	0BQT4ZZ	Procedure	ICD-10-PCS	Any	0.906	Repair Diaphragm Percutaneous Endo
DP02	0D164ZA	Procedure	ICD-10-PCS	Any	0.906	Bypass Stomach Jejunum Perq Endo
DP02	0HQ9XZZ	Procedure	ICD-10-PCS	Any	0.906	Repair Perineum Skin Ext Approach
DP02	0SPC09Z	Procedure	ICD-10-PCS	Any	0.906	Removal Liner Rt Knee Joint Open
DP02	0SUV09Z	Procedure	ICD-10-PCS	Any	0.906	Suppl Rt Knee Jnt Tib Surf Liner Op
DP02	0TJB8ZZ	Procedure	ICD-10-PCS	Any	0.906	Inspection Bladder Nat/Art Opn Endo
DP02	3E02340	Procedure	ICD-10-PCS	Any	0.906	Intro Influenza Vaccne Muscle Perq
DP02	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.886	Release Lumbar Nerve Open Approach
DP02	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.886	Intro Anes Agt Periph Nrv&Plexi Pc
DP02	C1017	Dispensing	Drug Class	Frequent	0.768	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	J1650	Procedure	HCPCS	Frequent	0.752	Injection Enoxaparin Sodium 10 Mg
DP02	0SRC0J9	Procedure	ICD-10-PCS	Any	0.724	Repl R Knee Joint Synth Cmentd Open
DP02	5A2204Z	Procedure	ICD-10-PCS	Any	0.703	Restoration Cardiac Rhythm Single
DP02	C147	Dispensing	Drug Class	Frequent	0.703	Anticonvulsant - Potassium Channel Opener
DP02	02HV33Z	Procedure	ICD-10-PCS	Any	0.634	Insrt Infus Devc Sup Vena Cava Perq
DP02	0T768DZ	Procedure	ICD-10-PCS	Any	0.618	Dilat Rt Ureter II Nat/Art Op Endo
DP02	B24BZZ4	Procedure	ICD-10-PCS	Any	0.618	Usg Heart Aorta Transesophageal
DP02	C158	Dispensing	Drug Class	Frequent	0.598	Antidepressant - N-Methyl D-Aspartate (Nmدا) Receptor Antagonist
DP02	C1713	Procedure	HCPCS	Any	0.588	Anchr/Screw Oppos Bn-Bn/Sft Tiss-Bn
DP02	G0145	Procedure	HCPCS	Any	0.539	Scr Cerv/Vag Auto&Mnl Rscr Phys
DP02	G0300	Procedure	HCPCS	Frequent	0.534	Dir Sns Lpn Hh/Hospce Set Ea 15 Min
DP02	S9083	Procedure	HCPCS	Any	0.518	Global Fee Urgent Care Centers
DP02	H43	Diagnosis	ICD-10-CM	Frequent	0.493	Disorders Of Vitreous Body
DP02	021109W	Procedure	ICD-10-PCS	Any	0.480	Bp Ca 2 Art Aorta Auto Ven Tiss Op
DP02	02RF38Z	Procedure	ICD-10-PCS	Any	0.480	Repl Aortic Valv Zooplstc Tiss Perq

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	0B9C8ZX	Procedure	ICD-10-PCS	Any	0.480	Drn Rt Up Lng Lb Nat/Art Op Endo Dx
DP02	0RG20A0	Procedure	ICD-10-PCS	Any	0.480	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP02	10907ZC	Procedure	ICD-10-PCS	Any	0.480	Drain Amnio Fluid Tx Poc Nat/Art Op
DP02	30233K1	Procedure	ICD-10-PCS	Any	0.480	Tran Nonauto Frzn Plas Periph Vn Pc
DP02	3E03317	Procedure	ICD-10-PCS	Any	0.480	Intro Oth Thrmbolet Periph Vn Perq
DP02	3E033XZ	Procedure	ICD-10-PCS	Any	0.480	Intro Vasopressor Periph Vn Perq
DP02	A7039	Procedure	HCPCS	Any	0.480	Fltr Non Dispbl Pos Arway Prss Devc
DP02	B211YZZ	Procedure	ICD-10-PCS	Any	0.480	Fluoro Multiple Cor Art Oth Cont
DP02	G0101	Procedure	HCPCS	Any	0.467	Cerv/Vag Cancr Scr;Pelv&Cln Brst Ex
DP02	C132	Dispensing	Drug Class	Frequent	0.460	Anticonvulsant - Functionalized Amino Acid
DP02	C716	Dispensing	Drug Class	Frequent	0.459	Geriatric Vitamins
DP02	C1017	Dispensing	Drug Class	Any	0.443	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	Q5001	Procedure	HCPCS	Frequent	0.441	Hospice/Home Hlth Care Pt Home/Res
DP02	A7037	Procedure	HCPCS	Frequent	0.432	Tubing Used W/Pos Arway Press Devc
DP02	C132	Dispensing	Drug Class	Often	0.430	Anticonvulsant - Functionalized Amino Acid
DP02	J3420	Procedure	HCPCS	Any	0.426	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP02	A7037	Procedure	HCPCS	Any	0.416	Tubing Used W/Pos Arway Press Devc
DP02	E0562	Procedure	HCPCS	Frequent	0.404	Humdifir Heat Used W/Pos Arway Prss
DP02	K0553	Procedure	HCPCS	Any	0.403	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	D22	Diagnosis	ICD-10-CM	Frequent	0.400	Melanocytic Nevi
DP02	C226	Dispensing	Drug Class	Often	0.389	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	C534	Dispensing	Drug Class	Frequent	0.379	Dermatological - Local Anesthetic Combinations / Dermatological - Topical
DP02	C919	Dispensing	Drug Class	Any	0.377	Nutritional Product - Medical Condition Specific Formulation
DP02	C226	Dispensing	Drug Class	Any	0.371	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	0BH17EZ	Procedure	ICD-10-PCS	Any	0.367	Insrt Et Aw Trachea Nat/Art Opening
DP02	C970	Dispensing	Drug Class	Any	0.362	Ophthalmic Antivirals
DP02	C1017	Dispensing	Drug Class	Often	0.360	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	C1173	Dispensing	Drug Class	Often	0.360	Unclassified Drug Products
DP02	K0553	Procedure	HCPCS	Often	0.353	Spl Allow Tx Cgm1 Mo Spl = 1 U Srvc
DP02	C835	Dispensing	Drug Class	Often	0.349	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions,
DP02	10E0XZZ	Procedure	ICD-10-PCS	Any	0.347	Delivery Products Of Conception Ext
DP02	30233N1	Procedure	ICD-10-PCS	Any	0.347	Tran Nauto Red Bld Cll Periph Vn Pc



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.347	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	99283	Procedure	CPT	Frequent	0.346	Emergency Dept Visit
DP02	17000	Procedure	CPT	Any	0.345	Destruct Premalg Lesion
DP02	C147	Dispensing	Drug Class	Any	0.344	Anticonvulsant - Potassium Channel Opener
DP02	J2370	Procedure	HCPCS	Any	0.340	Injection Phenylephrine Hcl To 1 MI
DP02	C371	Dispensing	Drug Class	Frequent	0.338	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular
DP02	N95	Diagnosis	ICD-10-CM	Frequent	0.336	Menopausal Oth Perimenopausal D/O
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.334	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	A7031	Procedure	HCPCS	Frequent	0.326	Fce Mask Interfce Repl Full Mask Ea
DP02	E53	Diagnosis	ICD-10-CM	Frequent	0.324	Deficiency Other B Group Vitamins
DP02	A0429	Procedure	HCPCS	Any	0.323	Amb Service Bls Emergency Transport
DP02	C328	Dispensing	Drug Class	Frequent	0.319	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP02	96375	Procedure	CPT	Frequent	0.317	Tx/Pro/Dx Inj New Drug Addon
DP02	L57	Diagnosis	ICD-10-CM	Any	0.317	Skin Changes Chrn Exps Nonioniz Rad
DP02	C132	Dispensing	Drug Class	Any	0.312	Anticonvulsant - Functionalized Amino Acid
DP02	17003	Procedure	CPT	Any	0.308	Destruct Premalg Les 2-14
DP02	E53	Diagnosis	ICD-10-CM	Any	0.307	Deficiency Other B Group Vitamins
DP02	C716	Dispensing	Drug Class	Any	0.306	Geriatric Vitamins
DP02	J2765	Procedure	HCPCS	Any	0.305	Inj Metoclopramide Hcl To 10 Mg
DP02	J1644	Procedure	HCPCS	Frequent	0.304	Inj Heparin Sodium Per 1000 Units
DP02	92012	Procedure	CPT	Any	0.299	Eye Exam Establish Patient
DP02	3E033VJ	Procedure	ICD-10-PCS	Any	0.298	Intro Oth Hormone Periph Vn Perq
DP02	5A1221Z	Procedure	ICD-10-PCS	Any	0.298	Performance Cardiac Output Cont
DP02	C559	Dispensing	Drug Class	Any	0.298	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP02	C682	Dispensing	Drug Class	Often	0.298	Factor Viii-Mimetic Agent, Monoclonal Antibody
DP02	A7030	Procedure	HCPCS	Any	0.289	Full Fce Mask Pos Arway Prss Dev Ea
DP02	C970	Dispensing	Drug Class	Frequent	0.289	Ophthalmic Antivirals
DP02	A9502	Procedure	HCPCS	Any	0.284	Tc-99M Tetrofosmin Dx - Study Dose
DP02	C376	Dispensing	Drug Class	Frequent	0.279	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant
DP02	E0570	Procedure	HCPCS	Frequent	0.279	Nebulizer With Compressor
DP02	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.278	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	A7031	Procedure	HCPCS	Any	0.277	Fce Mask Interfce Repl Full Mask Ea

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	72100	Procedure	CPT	Frequent	0.272	X-Ray Exam L-S Spine 2/3 Vws
DP02	C559	Dispensing	Drug Class	Frequent	0.272	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP02	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.272	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	80076	Procedure	CPT	Any	0.270	Hepatic Function Panel
DP02	84481	Procedure	CPT	Any	0.270	Free Assay (Ft-3)
DP02	H25	Diagnosis	ICD-10-CM	Frequent	0.269	Age-Related Cataract
DP02	A7033	Procedure	HCPCS	Any	0.265	Pillw Nasl Cannula Type Intf Repl
DP02	J0131	Procedure	HCPCS	Any	0.264	Injection Acetaminophen 10 Mg
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Any	1.764	Isolation
DP03	8E0ZXY6	Procedure	ICD-10-PCS	Often	1.541	Isolation
DP03	ORG20A0	Procedure	ICD-10-PCS	Any	1.254	Fus 2/> Cv Jnt If Ant Appr Ac Open
DP03	0UT70ZZ	Procedure	ICD-10-PCS	Any	1.254	Resection Bilat Fallopian Tubes Op
DP03	XW033E5	Procedure	ICD-10-PCS	Any	1.254	Intr Remdesivir Periph Vn Perc Nt5
DP03	0FT44ZZ	Procedure	ICD-10-PCS	Often	1.231	Resect Gallbladder Perq Endo Appr
DP03	J7307	Procedure	HCPCS	Any	1.153	Etonogestrel Impl Sys Incl Impl&Spl
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Any	0.944	Inspect Upper Intestine Tract Endo
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Often	0.944	Inspect Upper Intestine Tract Endo
DP03	0DTJ4ZZ	Procedure	ICD-10-PCS	Any	0.944	Resection Appendix Perq Endoscopic
DP03	0SRD0J9	Procedure	ICD-10-PCS	Any	0.944	Repl L Knee Joint Synth Cmentd Open
DP03	0VTTXZZ	Procedure	ICD-10-PCS	Any	0.944	Resection Prepuce External Approach
DP03	00HU33Z	Procedure	ICD-10-PCS	Any	0.848	Insert Infus Devc Spinal Canal Perq
DP03	05HY33Z	Procedure	ICD-10-PCS	Any	0.848	Insrt Infus Devc Up Vn Perq Appr
DP03	05HY33Z	Procedure	ICD-10-PCS	Often	0.848	Insrt Infus Devc Up Vn Perq Appr
DP03	0RB30ZZ	Procedure	ICD-10-PCS	Any	0.848	Excision Cerv Vertebral Disc Open
DP03	0SB40ZZ	Procedure	ICD-10-PCS	Frequent	0.848	Excision Of Lumbosacral Disc Open
DP03	0SG30K1	Procedure	ICD-10-PCS	Any	0.848	Fusion Ls Jnt Nauto Sub Post Pc Op
DP03	0T778DZ	Procedure	ICD-10-PCS	Any	0.848	Dil Lt Ureter Il Nat/Art Opng Endo
DP03	0T778DZ	Procedure	ICD-10-PCS	Often	0.848	Dil Lt Ureter Il Nat/Art Opng Endo
DP03	3E0234Z	Procedure	ICD-10-PCS	Any	0.848	Intro Serum Toxoid Vac Msc Perq
DP03	5A1935Z	Procedure	ICD-10-PCS	Often	0.848	Respiratory Vent < 24 Cons Hours
DP03	B211YZZ	Procedure	ICD-10-PCS	Often	0.848	Fluoro Multiple Cor Art Oth Cont
DP03	XW033E5	Procedure	ICD-10-PCS	Often	0.848	Intr Remdesivir Periph Vn Perc Nt5

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.761	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	A4230	Procedure	HCPCS	Often	0.721	Infus Set Ext Insulin Pump Nonndle
DP03	B2151ZZ	Procedure	ICD-10-PCS	Often	0.666	Fluoro Lt Heart Low Osmolar Contrst
DP03	L1902	Procedure	HCPCS	Any	0.666	Ank Orth Ank Gauntlt/Sim Prefab Ots
DP03	C338	Dispensing	Drug Class	Often	0.647	Antithyroid Agents
DP03	J0585	Procedure	HCPCS	Often	0.625	Botulinum Toxin Type A Per Unit
DP03	C338	Dispensing	Drug Class	Frequent	0.623	Antithyroid Agents
DP03	C703	Dispensing	Drug Class	Frequent	0.611	Gastric Acidifiers
DP03	027034Z	Procedure	ICD-10-PCS	Often	0.560	Dil Ca 1 Art Rx-Elut II Devc Perq
DP03	0BH17EZ	Procedure	ICD-10-PCS	Any	0.560	Insrt Et Aw Trachea Nat/Art Opening
DP03	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.560	Exc Sigmoid Colon Perq Endo Appr
DP03	0SRC0J9	Procedure	ICD-10-PCS	Any	0.560	Repl R Knee Joint Synth Cmentd Open
DP03	30233N1	Procedure	ICD-10-PCS	Any	0.560	Tran Nauto Red Bld CII Periph Vn Pc
DP03	30233N1	Procedure	ICD-10-PCS	Frequent	0.560	Tran Nauto Red Bld CII Periph Vn Pc
DP03	30233N1	Procedure	ICD-10-PCS	Often	0.560	Tran Nauto Red Bld CII Periph Vn Pc
DP03	5A1935Z	Procedure	ICD-10-PCS	Any	0.560	Respiratory Vent < 24 Cons Hours
DP03	B2151ZZ	Procedure	ICD-10-PCS	Any	0.560	Fluoro Lt Heart Low Osmolar Contrst
DP03	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.538	Excision Of Left Saphenous Vein Pe
DP03	0DTJ4ZZ	Procedure	ICD-10-PCS	Often	0.538	Resection Appendix Perq Endoscopic
DP03	0FT44ZZ	Procedure	ICD-10-PCS	Any	0.538	Resect Gallbladder Perq Endo Appr
DP03	0SG0071	Procedure	ICD-10-PCS	Any	0.538	Fusion Lv Joint Auto Sub Post Pc Op
DP03	0SG3071	Procedure	ICD-10-PCS	Any	0.538	Fusion Ls Joint Auto Sub Post Pc Op
DP03	0SRD069	Procedure	ICD-10-PCS	Any	0.538	Repl Lt Kj Ox Zr Poly Ss Cem Open
DP03	0T768DZ	Procedure	ICD-10-PCS	Any	0.538	Dilat Rt Ureter II Nat/Art Op Endo
DP03	3E0R3BZ	Procedure	ICD-10-PCS	Any	0.538	Intro Anest Agent Spinal Canal Perq
DP03	4A1HXCZ	Procedure	ICD-10-PCS	Any	0.538	Monitor Prod Concept Cardi Rate Ext
DP03	8E0Y0CZ	Procedure	ICD-10-PCS	Any	0.538	Robotic Asstd Proc Lower Ext Opn
DP03	A0398	Procedure	HCPCS	Any	0.538	Als Routine Disposable Supplies
DP03	B215YZZ	Procedure	ICD-10-PCS	Any	0.538	Fluoroscopy Lt Heart Other Contrast
DP03	B240ZZ3	Procedure	ICD-10-PCS	Any	0.538	Ultrasonography Sngl Cor Art Ivasc
DP03	J3490	Procedure	HCPCS	Frequent	0.538	Unclassified Drugs
DP03	J7298	Procedure	HCPCS	Any	0.538	Lng-Rls Intrauterine Coc Sys 52 Mg

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	S9123	Procedure	HCPCS	Often	0.523	Nrs Care Hom; Registered Nurse-Hour
DP03	J1020	Procedure	HCPCS	Any	0.491	Inj Methylprdnisalone Actat 20 Mg
DP03	S9123	Procedure	HCPCS	Frequent	0.491	Nrs Care Hom; Registered Nurse-Hour
DP03	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.473	Repair Perineum Muscle Open
DP03	B2111ZZ	Procedure	ICD-10-PCS	Often	0.473	Fluoro Mx Cor Art Low Osmolar Cont
DP03	J1200	Procedure	HCPCS	Any	0.470	Inj Diphenhydramine Hcl To 50 Mg
DP03	4A023N7	Procedure	ICD-10-PCS	Any	0.465	Measur Card Sampl Press Lt Heart Pc
DP03	G0482	Procedure	HCPCS	Frequent	0.464	Dr Tst Defn Dr Id M P D 15-21 Dr Cl
DP03	A9575	Procedure	HCPCS	Any	0.462	Inj Gadoterate Meglumine 0.1 Ml
DP03	A4230	Procedure	HCPCS	Any	0.460	Infus Set Ext Insulin Pump Nonndle
DP03	G8482	Procedure	HCPCS	Frequent	0.457	Influenza Immun Admin/Prev Recv
DP03	C451	Dispensing	Drug Class	Often	0.444	Dental Product - Dental Aids
DP03	4A023N7	Procedure	ICD-10-PCS	Often	0.443	Measur Card Sampl Press Lt Heart Pc
DP03	B2111ZZ	Procedure	ICD-10-PCS	Any	0.443	Fluoro Mx Cor Art Low Osmolar Cont
DP03	C559	Dispensing	Drug Class	Frequent	0.431	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP03	C1081	Dispensing	Drug Class	Frequent	0.427	Rifamycins And Related Derivative Antibiotics
DP03	C1115	Dispensing	Drug Class	Any	0.425	Urinary Retention Therapy - Parasympathomimetic Agents
DP03	G0283	Procedure	HCPCS	Frequent	0.421	E-Stim 1/>Not Wnd Care Part Tx Plan
DP03	3E033VJ	Procedure	ICD-10-PCS	Any	0.405	Intro Oth Hormone Periph Vn Perq
DP03	C451	Dispensing	Drug Class	Frequent	0.399	Dental Product - Dental Aids
DP03	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.392	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	C451	Dispensing	Drug Class	Any	0.385	Dental Product - Dental Aids
DP03	C1099	Dispensing	Drug Class	Frequent	0.382	Tetracycline Antibiotics And Combinations
DP03	C673	Dispensing	Drug Class	Often	0.372	Estrogens
DP03	02HV33Z	Procedure	ICD-10-PCS	Often	0.356	Insrt Infus Devc Sup Vena Cava Perq
DP03	0SG30AJ	Procedure	ICD-10-PCS	Any	0.356	Fusion Ls Jnt If Post Appr Ac Open
DP03	C168	Dispensing	Drug Class	Frequent	0.356	Antidepressant Combinations
DP03	C768	Dispensing	Drug Class	Frequent	0.356	Insulin-Like Growth Factor-1 (Igf-1)
DP03	C226	Dispensing	Drug Class	Frequent	0.352	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP03	C703	Dispensing	Drug Class	Often	0.341	Gastric Acidifiers
DP03	A7039	Procedure	HCPCS	Any	0.338	Fltr Non Dispbl Pos Arway Prss Devc
DP03	J8499	Procedure	HCPCS	Any	0.335	Prsc Rx Oral Nonchemothapeutic Nos

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	G8730	Procedure	HCPCS	Any	0.331	Pain Assess Pos Tool F/U Plan Doc
DP03	C261	Dispensing	Drug Class	Often	0.327	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP03	C858	Dispensing	Drug Class	Frequent	0.327	Mouth And Throat - Local Anesthetic Mixtures
DP03	E1390	Procedure	HCPCS	Often	0.322	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP03	J10	Diagnosis	ICD-10-CM	Any	0.320	Flu D/T Oth Id Influenza Virus
DP03	G2023	Procedure	HCPCS	Frequent	0.318	Spec Clct Sars-Cov2 Covid19 Any Src
DP03	L4361	Procedure	HCPCS	Any	0.316	Walking Boot Pneumatic And/Or Vac
DP03	027034Z	Procedure	ICD-10-PCS	Any	0.309	Dil Ca 1 Art Rx-Elut II Devc Perq
DP03	A7037	Procedure	HCPCS	Frequent	0.301	Tubing Used W/Pos Arway Press Devc
DP03	G2023	Procedure	HCPCS	Any	0.295	Spec Clct Sars-Cov2 Covid19 Any Src
DP03	J2010	Procedure	HCPCS	Any	0.295	Injection Lincomycin Hcl To 300 Mg
DP03	S9123	Procedure	HCPCS	Any	0.295	Nrs Care Hom; Registered Nurse-Hour
DP04	G8783	Procedure	HCPCS	Frequent	2.146	Normal Bp Reading Doc F/U Not Rqr
DP04	G8419	Procedure	HCPCS	Frequent	2.028	Bmi Doc Out NI Parm No F/U Doc No R
DP04	G8484	Procedure	HCPCS	Any	1.894	Flu Immun Not Adm Reason Not Given
DP04	J7620	Procedure	HCPCS	Frequent	1.843	Albuterol To 2.5 Mg Ipt To 0.5 Mg
DP04	A7030	Procedure	HCPCS	Frequent	1.740	Full Fce Mask Pos Arway Prss Dev Ea
DP04	G8482	Procedure	HCPCS	Any	1.558	Influenza Immun Admin/Prev Recv
DP04	G8484	Procedure	HCPCS	Frequent	1.558	Flu Immun Not Adm Reason Not Given
DP04	F10	Diagnosis	ICD-10-CM	Frequent	1.556	Alcohol Related Disorders
DP04	C451	Dispensing	Drug Class	Often	1.452	Dental Product - Dental Aids
DP04	A0100	Procedure	HCPCS	Often	1.438	Nonemergency Transportation; Taxi
DP04	C15	Dispensing	Drug Class	Frequent	1.438	Agents For Opioid Withdrawal, Opioid-Type / Analgesic Opioid Agonists And
DP04	E162	Diagnosis	ICD-9-CM	Any	1.438	No Description Available
DP04	T1016	Procedure	HCPCS	Frequent	1.438	Case Management Each 15 Mins
DP04	C451	Dispensing	Drug Class	Frequent	1.335	Dental Product - Dental Aids
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	1.304	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	C1033	Dispensing	Drug Class	Frequent	1.270	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP04	A4253	Procedure	HCPCS	Any	1.248	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	A7030	Procedure	HCPCS	Any	1.229	Full Fce Mask Pos Arway Prss Dev Ea
DP04	A4259	Procedure	HCPCS	Any	1.201	Lancets Per Box Of 100
DP04	C383	Dispensing	Drug Class	Frequent	1.201	Beta Blockers Cardiac Selective, All

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	T1017	Procedure	HCPCS	Frequent	1.201	Targeted Case Management Ea 15 Mins
DP04	A4253	Procedure	HCPCS	Often	1.172	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	E559	Diagnosis	ICD-9-CM	Any	1.150	No Description Available
DP04	C451	Dispensing	Drug Class	Any	1.138	Dental Product - Dental Aids
DP04	C15	Dispensing	Drug Class	Often	1.081	Agents For Opioid Withdrawal, Opioid-Type / Analgesic Opioid Agonists And
DP04	10D00Z1	Procedure	ICD-10-PCS	Any	1.047	Extraction Poc Low Open
DP04	A7031	Procedure	HCPCS	Frequent	1.047	Fce Mask Interfce Repl Full Mask Ea
DP04	C383	Dispensing	Drug Class	Any	1.047	Beta Blockers Cardiac Selective, All
DP04	A0100	Procedure	HCPCS	Any	1.045	Nonemergency Transportation; Taxi
DP04	A0100	Procedure	HCPCS	Frequent	1.032	Nonemergency Transportation; Taxi
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	1.032	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	N/A	Diagnosis	ICD-9-CM	3rd Quartile	0.968	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	99051	Procedure	CPT	Any	0.960	Med Serv Eve/Wkend/Holiday
DP04	E0562	Procedure	HCPCS	Often	0.960	Humdifir Heat Used W/Pos Arway Prss
DP04	J10	Diagnosis	ICD-10-CM	Frequent	0.950	Flu D/T Oth Id Influenza Virus
DP04	D64	Diagnosis	ICD-10-CM	Frequent	0.929	Other Anemias
DP04	C15	Dispensing	Drug Class	Any	0.912	Agents For Opioid Withdrawal, Opioid-Type / Analgesic Opioid Agonists And
DP04	C328	Dispensing	Drug Class	Frequent	0.899	Antiprotozoal / Disease Modifying Anti-Rheumatoid Drugs (Dmard)
DP04	B37	Diagnosis	ICD-10-CM	Frequent	0.878	Candidiasis
DP04	A7037	Procedure	HCPCS	Frequent	0.865	Tubing Used W/Pos Arway Press Devc
DP04	G8420	Procedure	HCPCS	Frequent	0.865	Bmi Doc Nml Param & No F/U Plan Rqr
DP04	H0036	Procedure	HCPCS	Frequent	0.865	Cmty Psyc Supp Tx Fce-To-Fce-15 Min
DP04	C996	Dispensing	Drug Class	Any	0.863	Parenteral Nutrition-Amino Acid, Dextrose And Electrolytes Combination
DP04	N/A	Diagnosis	ICD-9-CM	1st Quartile	0.825	Utilization Of Unique ICD-9-Cm Diagnosis Codes
DP04	A7037	Procedure	HCPCS	Any	0.824	Tubing Used W/Pos Arway Press Devc
DP04	C576	Dispensing	Drug Class	Frequent	0.824	Diagnostic - Blood Tests
DP04	G8420	Procedure	HCPCS	Any	0.824	Bmi Doc Nml Param & No F/U Plan Rqr
DP04	C423	Dispensing	Drug Class	Frequent	0.796	Choleretics
DP04	0KQM0ZZ	Procedure	ICD-10-PCS	Any	0.745	Repair Perineum Muscle Open
DP04	3E033VJ	Procedure	ICD-10-PCS	Any	0.745	Intro Oth Hormone Periph Vn Perq
DP04	C1099	Dispensing	Drug Class	Frequent	0.745	Tetracycline Antibiotics And Combinations
DP04	C1127	Dispensing	Drug Class	Frequent	0.745	Vaginal Antifungals



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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	C158	Dispensing	Drug Class	Frequent	0.745	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP04	C364	Dispensing	Drug Class	Frequent	0.745	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	C364	Dispensing	Drug Class	Often	0.745	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP04	C792	Dispensing	Drug Class	Frequent	0.745	Live Vaccine And Live Virus Formulations / Vaccines - Viral
DP04	E042	Diagnosis	ICD-9-CM	Any	0.745	No Description Available
DP04	E1122	Diagnosis	ICD-9-CM	Often	0.745	No Description Available
DP04	E119	Diagnosis	ICD-9-CM	Frequent	0.745	No Description Available
DP04	E6601	Diagnosis	ICD-9-CM	Any	0.745	No Description Available
DP04	E860	Diagnosis	ICD-9-CM	Any	0.745	Accidental Poisoning By Alcohol Nec
DP04	E890	Diagnosis	ICD-9-CM	Any	0.745	Conflagration In Private Dwelling
DP04	J0780	Procedure	HCPCS	Any	0.745	Inj Prochlorperazine To 10 Mg
DP04	N/A	Diagnosis	ICD-9-CM	2nd Quartile	0.745	Utilization Of All ICD-9-Cm Diagnosis Codes
DP04	N93	Diagnosis	ICD-10-CM	Frequent	0.745	Oth Abnormal Uterine Vaginal Bleed
DP04	N94	Diagnosis	ICD-10-CM	Frequent	0.745	Pain & Oth Cond Fe Gen Orgn & Menst
DP04	L30	Diagnosis	ICD-10-CM	Frequent	0.737	Other And Unspecified Dermatitis
DP04	N/A	Procedure	ICD-10-PCS	1st Quartile	0.737	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	1st Quartile	0.737	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	E0562	Procedure	HCPCS	Any	0.702	Humdifer Heat Used W/Pos Arway Prss
DP04	82465	Procedure	CPT	Any	0.685	Assay Bld/Serum Cholesterol
DP04	C42	Dispensing	Drug Class	Often	0.680	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP04	C166	Dispensing	Drug Class	Often	0.677	Antidepressant - Serotonin-Norepinephrine Reuptake Inhibitors (Snris)
DP04	84478	Procedure	CPT	Any	0.663	Assay Of Triglycerides
DP04	C376	Dispensing	Drug Class	Often	0.658	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant
DP04	F10	Diagnosis	ICD-10-CM	Any	0.651	Alcohol Related Disorders
DP04	A4259	Procedure	HCPCS	Frequent	0.641	Lancets Per Box Of 100
DP04	A4259	Procedure	HCPCS	Often	0.641	Lancets Per Box Of 100
DP04	A7031	Procedure	HCPCS	Any	0.641	Fce Mask Interfce Repl Full Mask Ea
DP04	C1033	Dispensing	Drug Class	Any	0.641	Pharmacological Chaperone Tx - Alpha-Galactosidase A Enzyme Stabilizer
DP04	C383	Dispensing	Drug Class	Often	0.641	Beta Blockers Cardiac Selective, All
DP04	C679	Dispensing	Drug Class	Frequent	0.641	Factor Ix Preparations
DP04	E669	Diagnosis	ICD-9-CM	Any	0.641	No Description Available
DP04	T1017	Procedure	HCPCS	Often	0.641	Targeted Case Management Ea 15 Mins

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Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP04	U0003	Procedure	HCPCS	Any	0.641	Ia Det Dna/Rna; Covid-19 Amp P T
DP04	F10	Diagnosis	ICD-10-CM	Often	0.639	Alcohol Related Disorders
DP04	J2060	Procedure	HCPCS	Any	0.639	Injection Lorazepam 2 Mg
DP04	C1099	Dispensing	Drug Class	Any	0.622	Tetracycline Antibiotics And Combinations
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.611	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.611	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	0.611	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.611	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	T1016	Procedure	HCPCS	Often	0.611	Case Management Each 15 Mins
DP04	C393	Dispensing	Drug Class	Frequent	0.591	Bone Resorption Inhibitors
DP04	T1016	Procedure	HCPCS	Any	0.591	Case Management Each 15 Mins
DP04	G8783	Procedure	HCPCS	Any	0.590	Normal Bp Reading Doc F/U Not Rqr
DP04	83718	Procedure	CPT	Any	0.586	Assay Of Lipoprotein
DP04	E0601	Procedure	HCPCS	Any	0.584	Continuous Pos Airway Pressure Devc
DP04	B34	Diagnosis	ICD-10-CM	Frequent	0.582	Viral Infection Of Unspecified Site
DP04	82374	Procedure	CPT	Frequent	0.571	Assay Blood Carbon Dioxide
DP05	C1081	Dispensing	Drug Class	Frequent	1.519	Rifamycins And Related Derivative Antibiotics
DP05	C42	Dispensing	Drug Class	Frequent	1.354	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C669	Dispensing	Drug Class	Frequent	1.318	Emergency Contraceptive Combinations
DP05	3E0T3BZ	Procedure	ICD-10-PCS	Any	1.285	Intro Anes Agt Periph Nrv&Plexi Pc
DP05	10E0XZZ	Procedure	ICD-10-PCS	Any	1.200	Delivery Products Of Conception Ext
DP05	D2792	Procedure	HCPCS	Any	1.200	Crown - Full Cast Noble Metal
DP05	A7031	Procedure	HCPCS	Frequent	1.113	Fce Mask Interfce Repl Full Mask Ea
DP05	A7033	Procedure	HCPCS	Frequent	1.102	Pillw Nasl Cannula Type Intf Repl
DP05	C835	Dispensing	Drug Class	Frequent	1.018	Minerals And Electrolytes - Sodium Chloride / Sodium Chloride Solutions,
DP05	G0283	Procedure	HCPCS	Frequent	1.018	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	0DBN4ZZ	Procedure	ICD-10-PCS	Any	0.879	Exc Sigmoid Colon Perq Endo Appr
DP05	0SRD0J9	Procedure	ICD-10-PCS	Any	0.879	Repl L Knee Joint Synth Cmentd Open
DP05	C970	Dispensing	Drug Class	Frequent	0.879	Ophthalmic Antivirals
DP05	A9500	Procedure	HCPCS	Any	0.826	Tc-99M Sestamibi Dx Per Study Dose
DP05	C1173	Dispensing	Drug Class	Often	0.807	Unclassified Drug Products
DP05	C333	Dispensing	Drug Class	Frequent	0.795	Antipsychotic - Dopamine Antagonists



**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	J7120	Procedure	HCPCS	Any	0.743	Ringers Lactate Infusion To 1000 Cc
DP05	C1173	Dispensing	Drug Class	Frequent	0.730	Unclassified Drug Products
DP05	C451	Dispensing	Drug Class	Frequent	0.730	Dental Product - Dental Aids
DP05	C1173	Dispensing	Drug Class	Any	0.705	Unclassified Drug Products
DP05	A7037	Procedure	HCPCS	Frequent	0.701	Tubing Used W/Pos Arway Press Devc
DP05	C175	Dispensing	Drug Class	Frequent	0.697	Antidiarrheal - Bismuth Agents
DP05	G9903	Procedure	HCPCS	Frequent	0.697	Pt Scr Tob Use & Id As Tob Non-User
DP05	J7050	Procedure	HCPCS	Frequent	0.697	Infus Normal Saline Solution 250 Cc
DP05	C716	Dispensing	Drug Class	Any	0.661	Geriatric Vitamins
DP05	D22	Diagnosis	ICD-10-CM	Frequent	0.633	Melanocytic Nevi
DP05	A7030	Procedure	HCPCS	Any	0.625	Full Fce Mask Pos Arway Prss Dev Ea
DP05	C100	Dispensing	Drug Class	Frequent	0.612	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2)
DP05	Z85	Diagnosis	ICD-10-CM	Frequent	0.609	Personal History Malignant Neoplasm
DP05	A7030	Procedure	HCPCS	Frequent	0.602	Full Fce Mask Pos Arway Prss Dev Ea
DP05	A7032	Procedure	HCPCS	Frequent	0.602	Cushn Nasal Mask Intf Repl Only Ea
DP05	J2550	Procedure	HCPCS	Any	0.594	Injection Promethazine Hcl To 50 Mg
DP05	E0562	Procedure	HCPCS	Frequent	0.592	Humdifir Heat Used W/Pos Arway Prss
DP05	C132	Dispensing	Drug Class	Often	0.587	Anticonvulsant - Functionalized Amino Acid
DP05	C42	Dispensing	Drug Class	Often	0.587	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C420	Dispensing	Drug Class	Any	0.587	Chelating Agents - Others / Pharmaceutical Adjuvant - Preservatives
DP05	V2781	Procedure	HCPCS	Any	0.568	Progressive Lens Per Lens
DP05	A7037	Procedure	HCPCS	Any	0.556	Tubing Used W/Pos Arway Press Devc
DP05	G0279	Procedure	HCPCS	Any	0.556	Dx Digtl Brst Tomosynthesis Uni/Bil
DP05	J1071	Procedure	HCPCS	Frequent	0.543	Inj Testosterone Cypionate 1 Mg
DP05	J1071	Procedure	HCPCS	Often	0.543	Inj Testosterone Cypionate 1 Mg
DP05	C100	Dispensing	Drug Class	Often	0.540	Antianxiety Agent - Butyrophenone Type / Antiemetic - Dopamine (D2)
DP05	Z80	Diagnosis	ICD-10-CM	Frequent	0.538	Fam Hx Primary Malignant Neoplasm
DP05	C212	Dispensing	Drug Class	Frequent	0.523	Antihistamines - 1St Generation
DP05	C226	Dispensing	Drug Class	Frequent	0.523	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP05	4A023N7	Procedure	ICD-10-PCS	Any	0.507	Measur Card Sampl Press Lt Heart Pc
DP05	C1149	Dispensing	Drug Class	Frequent	0.507	Anesthetics
DP05	C145	Dispensing	Drug Class	Often	0.507	Anticonvulsant - Phenyltriazine Derivatives

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C168	Dispensing	Drug Class	Frequent	0.507	Antidepressant Combinations
DP05	C42	Dispensing	Drug Class	Any	0.507	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP05	C682	Dispensing	Drug Class	Frequent	0.507	Factor VIII-Mimetic Agent, Monoclonal Antibody
DP05	G0283	Procedure	HCPCS	Often	0.507	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	G0481	Procedure	HCPCS	Frequent	0.507	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	K29	Diagnosis	ICD-10-CM	Frequent	0.507	Gastritis And Duodenitis
DP05	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.507	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP05	G9903	Procedure	HCPCS	Any	0.483	Pt Scr Tob Use & Id As Tob Non-User
DP05	J2001	Procedure	HCPCS	Any	0.479	Injection Lido Hcl Iv Infus 10 Mg
DP05	M47	Diagnosis	ICD-10-CM	Frequent	0.475	Spondylosis
DP05	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.474	Robotic Asstd Proc Trunk Perq Endo
DP05	C977	Dispensing	Drug Class	Frequent	0.474	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP05	E53	Diagnosis	ICD-10-CM	Frequent	0.474	Deficiency Other B Group Vitamins
DP05	R63	Diagnosis	ICD-10-CM	Frequent	0.474	Sx Signs Concerning Food Fl Intake
DP05	C394	Dispensing	Drug Class	Often	0.461	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP05	B35	Diagnosis	ICD-10-CM	Frequent	0.458	Dermatophytosis
DP05	R92	Diagnosis	ICD-10-CM	Any	0.457	Abn Inconclusive Find Dx Imag Brst
DP05	C145	Dispensing	Drug Class	Any	0.456	Anticonvulsant - Phenyltriazine Derivatives
DP05	J2270	Procedure	HCPCS	Any	0.453	Inj Morphine Sulfate Up To 10 Mg
DP05	C169	Dispensing	Drug Class	Often	0.450	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP05	C682	Dispensing	Drug Class	Often	0.450	Factor VIII-Mimetic Agent, Monoclonal Antibody
DP05	G0378	Procedure	HCPCS	Frequent	0.448	Hospital Observatn Service Per Hour
DP05	C164	Dispensing	Drug Class	Frequent	0.446	Antidepressant - Serotonin-2 Antagonist-Reuptake Inhibitors (Saris)
DP05	C168	Dispensing	Drug Class	Often	0.446	Antidepressant Combinations
DP05	C451	Dispensing	Drug Class	Often	0.443	Dental Product - Dental Aids
DP05	C669	Dispensing	Drug Class	Often	0.443	Emergency Contraceptive Combinations
DP05	M51	Diagnosis	ICD-10-CM	Frequent	0.443	Thoracic Tl & Ls Intervert Disc D/O
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.437	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	A7031	Procedure	HCPCS	Any	0.427	Fce Mask Interfce Repl Full Mask Ea
DP05	A7035	Procedure	HCPCS	Any	0.427	Headgear Used W/Pos Arway Prss Devc
DP05	G89	Diagnosis	ICD-10-CM	Frequent	0.425	Pain Not Elsewhere Classified
DP05	N/A	Procedure	ICD-10-PCS	1st Quartile	0.422	Utilization Of Unique ICD-10-Pcs Procedure Codes

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C132	Dispensing	Drug Class	Any	0.420	Anticonvulsant - Functionalized Amino Acid
DP05	G0481	Procedure	HCPCS	Any	0.420	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP05	N/A	Procedure	ICD-10-PCS	3rd Quartile	0.420	Utilization Of All ICD-10-Pcs Procedure Codes
DP05	R79	Diagnosis	ICD-10-CM	Frequent	0.420	Oth Abnormal Findings Bld Chemistry
DP05	C919	Dispensing	Drug Class	Any	0.418	Nutritional Product - Medical Condition Specific Formulation
DP05	C147	Dispensing	Drug Class	Any	0.415	Anticonvulsant - Potassium Channel Opener
DP05	C394	Dispensing	Drug Class	Any	0.415	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP05	C1004	Dispensing	Drug Class	Frequent	0.409	Periodontal Product - Anti-Infectives
DP05	C451	Dispensing	Drug Class	Any	0.409	Dental Product - Dental Aids
DP05	G0439	Procedure	HCPCS	Any	0.409	Annual Wellness Vst; Pps Subsqst Vst
DP05	G8417	Procedure	HCPCS	Frequent	0.409	Bmi Doc Abv Nml Param & F/U Pln Doc
DP05	R68	Diagnosis	ICD-10-CM	Any	0.407	Other General Symptoms And Signs
DP05	99441	Procedure	CPT	Any	0.404	Phone E/M Phys/Qhp 5-10 Min
DP05	99244	Procedure	CPT	Any	0.400	Office Consultation
DP05	C1006	Dispensing	Drug Class	Frequent	0.396	Peripheral Vasodilators
DP05	Q0091	Procedure	HCPCS	Any	0.394	Scr Pap Smer; Obtain Prep&Convy-Lab
DP05	C371	Dispensing	Drug Class	Frequent	0.389	Asthma/Copd Therapy - Beta Adrenergic Agents / Cardiovascular
DP05	J2704	Procedure	HCPCS	Any	0.389	Injection Propofol 10 Mg
DP05	C175	Dispensing	Drug Class	Often	0.387	Antidiarrheal - Bismuth Agents
DP05	K64	Diagnosis	ICD-10-CM	Frequent	0.384	Hemorrhoids Perian Venous Thromb
DP06	5A1221Z	Procedure	ICD-10-PCS	Any	1.772	Performance Cardiac Output Cont
DP06	0TJB8ZZ	Procedure	ICD-10-PCS	Any	1.617	Inspection Bladder Nat/Art Opn Endo
DP06	0DNW4ZZ	Procedure	ICD-10-PCS	Any	1.273	Release Peritoneum Perq Endo Appr
DP06	0TC68ZZ	Procedure	ICD-10-PCS	Any	1.273	Extirpat Mattr Rt Ureter Endo
DP06	8E0ZXY6	Procedure	ICD-10-PCS	Any	1.273	Isolation
DP06	02100Z9	Procedure	ICD-10-PCS	Any	1.212	Bp Cor Art 1 Art Lt Intrl Mamm Opn
DP06	02H63JZ	Procedure	ICD-10-PCS	Any	1.212	Insert Pacemkr Lead Rt Atrium Perq
DP06	02HK3JZ	Procedure	ICD-10-PCS	Any	1.212	Ins Pacemakr Lead Rt Ventricle Perq
DP06	5A2204Z	Procedure	ICD-10-PCS	Any	1.212	Restoration Cardiac Rhythm Single
DP06	J10	Diagnosis	ICD-10-CM	Frequent	1.197	Flu D/T Oth Id Influenza Virus
DP06	00NY0ZZ	Procedure	ICD-10-PCS	Any	0.924	Release Lumbar Spinal Cord Open
DP06	03CLOZZ	Procedure	ICD-10-PCS	Any	0.924	Extirpat Matter Left Ica Open Appr

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	06BQ4ZZ	Procedure	ICD-10-PCS	Any	0.924	Excision Of Left Saphenous Vein Pe
DP06	0DB68ZX	Procedure	ICD-10-PCS	Any	0.924	Exc Stomach Nat/Art Opening Endo Dx
DP06	0TC78ZZ	Procedure	ICD-10-PCS	Any	0.924	Extirpation Matter Lt Ureter Endo
DP06	0W9930Z	Procedure	ICD-10-PCS	Any	0.924	Drainage Rt Pleural Cav Drn Devc Pc
DP06	0W993ZZ	Procedure	ICD-10-PCS	Any	0.924	Drainage Right Pleural Cavity Perq
DP06	5A1935Z	Procedure	ICD-10-PCS	Any	0.924	Respiratory Vent < 24 Cons Hours
DP06	05HY33Z	Procedure	ICD-10-PCS	Any	0.867	Insrt Infus Devc Up Vn Perq Appr
DP06	07B74ZX	Procedure	ICD-10-PCS	Any	0.867	Excision Thorax Lymph Perq Endo Dx
DP06	0BNL4ZZ	Procedure	ICD-10-PCS	Any	0.867	Release Left Lung Perq Endoscopic
DP06	0D164ZA	Procedure	ICD-10-PCS	Any	0.867	Bypass Stomach Jejunum Perq Endo
DP06	0F798DZ	Procedure	ICD-10-PCS	Any	0.867	Dil Cmn Bd W Il Dev Nat/Art Op Endo
DP06	0FPB8DZ	Procedure	ICD-10-PCS	Any	0.867	Removal Il Hpb Duct Nat/Art Op Endo
DP06	0SPC0JZ	Procedure	ICD-10-PCS	Any	0.867	Remv Synth Subst Rt Knee Joint Open
DP06	0SPD0JZ	Procedure	ICD-10-PCS	Any	0.867	Remv Synth Subst Lt Knee Joint Open
DP06	0WUF0JZ	Procedure	ICD-10-PCS	Any	0.867	Supplement Adbominal Wall Syn Open
DP06	3E0333Z	Procedure	ICD-10-PCS	Any	0.867	Intro Aif Periph Vein Perq Approach
DP06	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.807	Release Lumbar Nerve Open Approach
DP06	02HV33Z	Procedure	ICD-10-PCS	Any	0.770	Insrt Infus Devc Sup Vena Cava Perq
DP06	0BH17EZ	Procedure	ICD-10-PCS	Any	0.742	Insrt Et Aw Trachea Nat/Art Opening
DP06	0T778DZ	Procedure	ICD-10-PCS	Any	0.742	Dil Lt Ureter Il Nat/Art Opng Endo
DP06	3E03329	Procedure	ICD-10-PCS	Any	0.742	Intro Oth Anti-Infec Periph Vn Perq
DP06	C1017	Dispensing	Drug Class	Frequent	0.730	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	027035Z	Procedure	ICD-10-PCS	Any	0.685	Dilat Ca 1 Art 2 Rx-Elut Il Devc Pc
DP06	ORRJOJZ	Procedure	ICD-10-PCS	Any	0.685	Repl Rt Shldr Jnt Synth Subst Opn
DP06	0T768DZ	Procedure	ICD-10-PCS	Any	0.685	Dilat Rt Ureter Il Nat/Art Op Endo
DP06	B2151ZZ	Procedure	ICD-10-PCS	Any	0.685	Fluoro Lt Heart Low Osmolar Contrst
DP06	C376	Dispensing	Drug Class	Frequent	0.681	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant
DP06	G8730	Procedure	HCPCS	Frequent	0.648	Pain Assess Pos Tool F/U Plan Doc
DP06	B24BZZ4	Procedure	ICD-10-PCS	Any	0.637	Usg Heart Aorta Transesophageal
DP06	C44	Dispensing	Drug Class	Frequent	0.614	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	027135Z	Procedure	ICD-10-PCS	Any	0.580	Dil Ca 2 Art 2 Rx-Elut Il Devc Perq
DP06	0W3P8ZZ	Procedure	ICD-10-PCS	Any	0.580	Control Gastrointest Nat/Art Endo

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	B2181ZZ	Procedure	ICD-10-PCS	Any	0.580	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP06	8E0W4CZ	Procedure	ICD-10-PCS	Any	0.531	Robotic Asstd Proc Trunk Perq Endo
DP06	02K83ZZ	Procedure	ICD-10-PCS	Any	0.519	Map Conduction Mechanism Perq Appr
DP06	037L3DZ	Procedure	ICD-10-PCS	Any	0.519	Dilat Left Ica Intralumnl Devc Perq
DP06	03CJ0ZZ	Procedure	ICD-10-PCS	Any	0.519	Extirpat Matter Lt Cca Opn Approach
DP06	04V03DZ	Procedure	ICD-10-PCS	Any	0.519	Rstrc Aa Intralum Devc Perq Appr
DP06	0BH18EZ	Procedure	ICD-10-PCS	Any	0.519	Insert Et Aw Trach Nat/Art Op Endo
DP06	0DB78ZX	Procedure	ICD-10-PCS	Any	0.519	Exc Stom Pylorus Nat/Art Op Endo Dx
DP06	0DBH8ZX	Procedure	ICD-10-PCS	Any	0.519	Excision Cecum Nat/Art Op Endo Dx
DP06	0DBL8ZX	Procedure	ICD-10-PCS	Any	0.519	Ex Trns Colon Nat Or Art Op Endo Dx
DP06	0JH63XZ	Procedure	ICD-10-PCS	Any	0.519	Ins Tun Vasc Ac Dvc Chest Sq T&F Pc
DP06	0RRK0JZ	Procedure	ICD-10-PCS	Any	0.519	Repl Lt Shldr Jnt Synth Subst Opn
DP06	0SB20ZZ	Procedure	ICD-10-PCS	Any	0.519	Excision Lumbar Vertebral Disc Open
DP06	0SG1071	Procedure	ICD-10-PCS	Any	0.519	Fus 2/> Lv Jnt Auto Sub Post Pc Op
DP06	0SRB02A	Procedure	ICD-10-PCS	Any	0.519	Repl L Hip Jnt Metl Poly Ucment Opn
DP06	0SRB04A	Procedure	ICD-10-PCS	Any	0.519	Repl L Hip Jnt Ceram Ply Ucment Opn
DP06	0SRD0J9	Procedure	ICD-10-PCS	Any	0.519	Repl L Knee Joint Synth Cmentd Open
DP06	0UT90ZZ	Procedure	ICD-10-PCS	Any	0.519	Resection Uterus Open
DP06	5A09357	Procedure	ICD-10-PCS	Any	0.519	Asst W/Resp Vent < 24 Con Hour Cpap
DP06	5A1945Z	Procedure	ICD-10-PCS	Any	0.519	Respiratory Vent 24-96 Consec Hours
DP06	C45	Dispensing	Drug Class	Frequent	0.519	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	C970	Dispensing	Drug Class	Frequent	0.494	Ophthalmic Antivirals
DP06	G8950	Procedure	HCPCS	Frequent	0.489	Prehtn/Htn Bp Doc & Indicat F/U Doc
DP06	G8783	Procedure	HCPCS	Frequent	0.486	Normal Bp Reading Doc F/U Not Rqr
DP06	C221	Dispensing	Drug Class	Frequent	0.469	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents
DP06	G1004	Procedure	HCPCS	Frequent	0.466	Cdsm Ndsc Defined Medicare Auc Prog
DP06	B2131ZZ	Procedure	ICD-10-PCS	Any	0.462	Fluoro Mx Ca Bp Gft Low Osmlr Cont
DP06	B24BZZZ	Procedure	ICD-10-PCS	Any	0.462	Ultrasonography Of Heart With Aorta
DP06	J10	Diagnosis	ICD-10-CM	Any	0.432	Flu D/T Oth Id Influenza Virus
DP06	C919	Dispensing	Drug Class	Frequent	0.413	Nutritional Product - Medical Condition Specific Formulation
DP06	C168	Dispensing	Drug Class	Often	0.403	Antidepressant Combinations
DP06	84481	Procedure	CPT	Any	0.398	Free Assay (Ft-3)

**Appendix H. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 19 and Older, Evidence of Medically-Attended Acute Respiratory Illness on Days -3 to 0, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	B215YZZ	Procedure	ICD-10-PCS	Any	0.397	Fluoroscopy Lt Heart Other Contrast
DP06	B246ZZZ	Procedure	ICD-10-PCS	Any	0.397	Ultrasonography Right & Left Heart
DP06	C394	Dispensing	Drug Class	Frequent	0.394	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP06	C224	Dispensing	Drug Class	Frequent	0.375	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP06	C1017	Dispensing	Drug Class	Any	0.367	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	G0463	Procedure	HCPCS	Frequent	0.367	Hos Op Clin Visit Assess & Mgmt Pt
DP06	5A1D70Z	Procedure	ICD-10-PCS	Any	0.357	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP06	C364	Dispensing	Drug Class	Frequent	0.346	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP06	02L73DK	Procedure	ICD-10-PCS	Any	0.337	Occlusion Laa W/Intralum Devc Perq
DP06	02RF38Z	Procedure	ICD-10-PCS	Any	0.337	Repl Aortic Valv Zooplstc Tiss Perq
DP06	0BJ08ZZ	Procedure	ICD-10-PCS	Any	0.337	Inspection Tbt Nat/Art Opening Endo
DP06	C968	Dispensing	Drug Class	Any	0.335	Ophthalmic Antifungals
DP06	J2930	Procedure	HCPCS	Any	0.334	Inj Methylprdnisln Sodim To 125 Mg
DP06	C1017	Dispensing	Drug Class	Often	0.333	Pharmaceutical Adjuvant - Liquid Vehicles
DP06	J1650	Procedure	HCPCS	Any	0.333	Injection Enoxaparin Sodium 10 Mg
DP06	C1115	Dispensing	Drug Class	Any	0.330	Urinary Retention Therapy - Parasympathomimetic Agents
DP06	C333	Dispensing	Drug Class	Frequent	0.330	Antipsychotic - Dopamine Antagonists
DP06	J20	Diagnosis	ICD-10-CM	Frequent	0.330	Acute Bronchitis
DP06	XW033E5	Procedure	ICD-10-PCS	Any	0.328	Intr Remdesivir Periph Vn Perc Nt5
DP06	86140	Procedure	CPT	Frequent	0.326	C-Reactive Protein
DP06	C168	Dispensing	Drug Class	Frequent	0.322	Antidepressant Combinations
DP06	G0481	Procedure	HCPCS	Any	0.322	Dr Tst Defin Dr Id M P D 8-14 Dr Cl
DP06	C147	Dispensing	Drug Class	Frequent	0.320	Anticonvulsant - Potassium Channel Opener
DP06	C682	Dispensing	Drug Class	Any	0.320	Factor Viii-Mimetic Agent, Monoclonal Antibody

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as “any” when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as “often,” and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as “frequent.” The frequency with which health services are utilized (“Utilization” Code) by patients is not classified into “any,” “often,” and “frequent,” but rather into four quartiles: 1st (≤ 25th), 2nd (>25th but ≤50th), 3rd (>50th but ≤75th), and 4th (>75th).



**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	027035Z	Procedure	ICD-10-PCS	Any	2.305	Dilat Ca 1 Art 2 Rx-Elut II Devc Pc
DP01	A7031	Procedure	HCPCS	Frequent	2.233	Fce Mask Interfce Repl Full Mask Ea
DP01	0SG00AJ	Procedure	ICD-10-PCS	Any	1.899	Fusion Lv Joint If Post Appr Ac Opn
DP01	4A133B1	Procedure	ICD-10-PCS	Any	1.899	Monitor Arterial Pressure Periph Pc
DP01	C158	Dispensing	Drug Class	Frequent	1.858	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP01	C158	Dispensing	Drug Class	Often	1.760	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP01	99308	Procedure	CPT	Often	1.754	Nursing Fac Care Subseq
DP01	99309	Procedure	CPT	Often	1.686	Nursing Fac Care Subseq
DP01	99309	Procedure	CPT	Any	1.648	Nursing Fac Care Subseq
DP01	03CK0ZZ	Procedure	ICD-10-PCS	Any	1.612	Extirpation Matter Right Ica Open
DP01	B2181ZZ	Procedure	ICD-10-PCS	Any	1.612	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP01	99309	Procedure	CPT	Frequent	1.577	Nursing Fac Care Subseq
DP01	C1169	Dispensing	Drug Class	Frequent	1.551	Autonomic Drugs
DP01	99308	Procedure	CPT	Any	1.521	Nursing Fac Care Subseq
DP01	B2131ZZ	Procedure	ICD-10-PCS	Any	1.494	Fluoro Mx Ca Bp Gft Low Osmlr Cont
DP01	99308	Procedure	CPT	Frequent	1.456	Nursing Fac Care Subseq
DP01	A7030	Procedure	HCPCS	Frequent	1.415	Full Fce Mask Pos Arway Prss Dev Ea
DP01	02L73DK	Procedure	ICD-10-PCS	Any	1.389	Occlusion Laa W/Intralum Devc Perq
DP01	0SR904A	Procedure	ICD-10-PCS	Any	1.389	Repl R Hip Jnt Ceram Ply Ucment Opn
DP01	5A1223Z	Procedure	ICD-10-PCS	Any	1.389	Performance Cardiac Pacing Cont
DP01	F33	Diagnosis	ICD-10-CM	Frequent	1.374	Maj Depress D/O Recurrent
DP01	C44	Dispensing	Drug Class	Frequent	1.339	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP01	J1650	Procedure	HCPCS	Frequent	1.333	Injection Enoxaparin Sodium 10 Mg
DP01	R0075	Procedure	HCPCS	Any	1.309	Trans Prtbl Xray Eqp&Pers-Trip>1 Pt
DP01	02RF38Z	Procedure	ICD-10-PCS	Any	1.293	Repl Aortic Valv Zooplstc Tiss Perq
DP01	0W9B3ZZ	Procedure	ICD-10-PCS	Any	1.293	Drainage Left Pleural Cavity Perq
DP01	P9603	Procedure	HCPCS	Any	1.282	Travl 1 Way Nec Lab Spec; Actl Mile
DP01	R0070	Procedure	HCPCS	Frequent	1.265	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP01	A4259	Procedure	HCPCS	Any	1.258	Lancets Per Box Of 100
DP01	J1650	Procedure	HCPCS	Any	1.229	Injection Enoxaparin Sodium 10 Mg
DP01	C224	Dispensing	Drug Class	Frequent	1.184	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP01	Q0092	Procedure	HCPCS	Frequent	1.176	Set-Up Portable X-Ray Equipment
DP01	G0127	Procedure	HCPCS	Any	1.145	Trim Dystrophic Nails Any Number

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G0467	Procedure	HCPCS	Frequent	1.121	Fqhc Visit Established Patient
DP01	P9604	Procedure	HCPCS	Any	1.091	Travl 1 Way Nec Lab Spec; Trip Chrg
DP01	C1169	Dispensing	Drug Class	Often	1.059	Autonomic Drugs
DP01	009U3ZX	Procedure	ICD-10-PCS	Any	1.052	Drainage Spinal Canal Perq Appr Dx
DP01	11721	Procedure	CPT	Often	1.039	Debride Nail 6 Or More
DP01	G0127	Procedure	HCPCS	Often	1.023	Trim Dystrophic Nails Any Number
DP01	C973	Dispensing	Drug Class	Frequent	0.986	Ophthalmic-Intraocular Pressure Reducing Agents, Prostaglandin Analogs
DP01	C44	Dispensing	Drug Class	Often	0.985	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP01	C683	Dispensing	Drug Class	Frequent	0.977	Factor X Preparations
DP01	Q0092	Procedure	HCPCS	Any	0.968	Set-Up Portable X-Ray Equipment
DP01	F33	Diagnosis	ICD-10-CM	Often	0.951	Maj Depress D/O Recurrent
DP01	C45	Dispensing	Drug Class	Often	0.934	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP01	11721	Procedure	CPT	Any	0.920	Debride Nail 6 Or More
DP01	S5161	Procedure	HCPCS	Often	0.894	Emerg Response Sys; Srvc Fee-Month
DP01	C376	Dispensing	Drug Class	Frequent	0.870	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -
DP01	B2111ZZ	Procedure	ICD-10-PCS	Any	0.866	Fluoro Mx Cor Art Low Osmolar Cont
DP01	C333	Dispensing	Drug Class	Frequent	0.865	Antipsychotic - Dopamine Antagonists
DP01	C132	Dispensing	Drug Class	Frequent	0.863	Anticonvulsant - Functionalized Amino Acid
DP01	J7613	Procedure	HCPCS	Frequent	0.843	Albuterol Inhal Non-Cp U Dose 1 Mg
DP01	I73	Diagnosis	ICD-10-CM	Frequent	0.825	Other Peripheral Vascular Diseases
DP01	I12	Diagnosis	ICD-10-CM	Frequent	0.822	Hypertensive Chronic Kidney Disease
DP01	A0428	Procedure	HCPCS	Any	0.814	Amb Service Bls Nonemerg Transport
DP01	C158	Dispensing	Drug Class	Any	0.798	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP01	C985	Dispensing	Drug Class	Often	0.789	Overactive Bladder Agents
DP01	4A023N7	Procedure	ICD-10-PCS	Any	0.782	Measur Card Sampl Press Lt Heart Pc
DP01	I73	Diagnosis	ICD-10-CM	Often	0.762	Other Peripheral Vascular Diseases
DP01	G0438	Procedure	HCPCS	Any	0.753	Annual Wellnes Vst; Persnl Pps Init
DP01	01NB0ZZ	Procedure	ICD-10-PCS	Any	0.747	Release Lumbar Nerve Open Approach
DP01	C691	Dispensing	Drug Class	Frequent	0.747	Folate Antagonist Antibiotics
DP01	C679	Dispensing	Drug Class	Frequent	0.744	Factor Ix Preparations
DP01	C45	Dispensing	Drug Class	Frequent	0.716	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP01	Q3014	Procedure	HCPCS	Frequent	0.716	Telehealth Orig Site Facility Fee
DP01	99223	Procedure	CPT	Frequent	0.713	Initial Hospital Care



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G0009	Procedure	HCPCS	Any	0.710	Administration Pneumococcal Vacc
DP01	C376	Dispensing	Drug Class	Often	0.708	Attention Deficit-Hyperactivity (Adhd) Therapy, Stimulant-Type / Cns Stimulant -
DP01	A0429	Procedure	HCPCS	Any	0.697	Amb Service Bls Emergency Transport
DP01	R0070	Procedure	HCPCS	Any	0.696	Trans Prtbl Xray Eq&Pers-Trip 1 Pt
DP01	027034Z	Procedure	ICD-10-PCS	Any	0.695	Dil Ca 1 Art Rx-Elut II Devc Perq
DP01	C1004	Dispensing	Drug Class	Frequent	0.686	Periodontal Product - Anti-Infectives
DP01	A0425	Procedure	HCPCS	Any	0.684	Ground Mileage Per Statute Mile
DP01	U0003	Procedure	HCPCS	Any	0.684	Ia Det Dna/Rna; Covid-19 Amp P T
DP01	G0444	Procedure	HCPCS	Any	0.682	Annual Depression Screening 15 Min
DP01	U0005	Procedure	HCPCS	Any	0.674	Ia Det Na; Sars-Cov-2 Covid-19
DP01	30233N1	Procedure	ICD-10-PCS	Any	0.666	Tran Nauto Red Bld ClI Periph Vn Pc
DP01	B35	Diagnosis	ICD-10-CM	Often	0.664	Dermatophytosis
DP01	87804	Procedure	CPT	Any	0.663	Influenza Assay W/Optic
DP01	C1017	Dispensing	Drug Class	Often	0.661	Pharmaceutical Adjuvant - Liquid Vehicles
DP01	C9803	Procedure	HCPCS	Any	0.657	Placeholder Only - Code Has Not Bee
DP01	3E03329	Procedure	ICD-10-PCS	Any	0.647	Intro Oth Anti-Infec Periph Vn Perq
DP01	C45	Dispensing	Drug Class	Any	0.645	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP01	G0378	Procedure	HCPCS	Any	0.642	Hospital Observatn Service Per Hour
DP01	G0299	Procedure	HCPCS	Frequent	0.640	Dir Sns Rn Hh/Hospice Set Ea 15 Min
DP01	C122	Dispensing	Drug Class	Any	0.631	Anticoagulants - Indanedione
DP01	A0427	Procedure	HCPCS	Any	0.614	Amb Srvc Als Emerg Transport Lev1 1
DP01	G0279	Procedure	HCPCS	Any	0.607	Dx DigtI Brst Tomosynthesis Uni/Bil
DP01	J3420	Procedure	HCPCS	Often	0.607	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP01	99239	Procedure	CPT	Any	0.606	Hospital Discharge Day
DP01	J0696	Procedure	HCPCS	Any	0.603	Inj Ceftriaxone Sodium Per 250 Mg
DP01	C217	Dispensing	Drug Class	Frequent	0.600	Antihyperlipidemic - Bile Acid Sequestrants
DP01	C217	Dispensing	Drug Class	Any	0.595	Antihyperlipidemic - Bile Acid Sequestrants
DP01	G0151	Procedure	HCPCS	Frequent	0.589	Srvc Pt Hom Hlth/Hospice Ea 15 Min
DP01	J3420	Procedure	HCPCS	Any	0.577	Inj Vit B-12 Cynocoblmn To 1000 Mcg
DP01	R50	Diagnosis	ICD-10-CM	Frequent	0.567	Fever Of Other And Unknown Origin
DP01	C104	Dispensing	Drug Class	Frequent	0.557	Antiarrhythmic - Class I
DP01	C164	Dispensing	Drug Class	Frequent	0.551	Antidepressant - Serotonin-2 Antagonist-Reuptake Inhibitors (Saris)
DP01	C44	Dispensing	Drug Class	Any	0.551	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP01	G0467	Procedure	HCPCS	Often	0.548	Fqhc Visit Established Patient
DP02	G9903	Procedure	HCPCS	Any	3.005	Pt Scr Tob Use & Id As Tob Non-User
DP02	G8427	Procedure	HCPCS	Frequent	2.262	Elig Clin Doc M Updtd Rec Pt Meds
DP02	J10	Diagnosis	ICD-10-CM	Frequent	2.228	Flu D/T Oth Id Influenza Virus
DP02	G8427	Procedure	HCPCS	Any	2.207	Elig Clin Doc M Updtd Rec Pt Meds
DP02	A0100	Procedure	HCPCS	Frequent	2.141	Nonemergency Transportation; Taxi
DP02	J0456	Procedure	HCPCS	Frequent	2.029	Injection Azithromycin 500 Mg
DP02	J0456	Procedure	HCPCS	Any	1.669	Injection Azithromycin 500 Mg
DP02	1170F	Procedure	CPT	Any	1.620	Fxnl Status Assessed
DP02	3078F	Procedure	CPT	Frequent	1.557	Diast Bp <80 Mm Hg
DP02	3078F	Procedure	CPT	Often	1.531	Diast Bp <80 Mm Hg
DP02	3074F	Procedure	CPT	Frequent	1.515	Syst Bp Lt 130 Mm Hg
DP02	1159F	Procedure	CPT	Any	1.506	Med List Docd In Rcrd
DP02	1159F	Procedure	CPT	Often	1.491	Med List Docd In Rcrd
DP02	3074F	Procedure	CPT	Any	1.488	Syst Bp Lt 130 Mm Hg
DP02	1160F	Procedure	CPT	Any	1.475	Rvw Meds By Rx/Dr In Rcrd
DP02	1159F	Procedure	CPT	Frequent	1.470	Med List Docd In Rcrd
DP02	1160F	Procedure	CPT	Often	1.463	Rvw Meds By Rx/Dr In Rcrd
DP02	1160F	Procedure	CPT	Frequent	1.421	Rvw Meds By Rx/Dr In Rcrd
DP02	3078F	Procedure	CPT	Any	1.419	Diast Bp <80 Mm Hg
DP02	3008F	Procedure	CPT	Often	1.403	Body Mass Index Docd
DP02	3008F	Procedure	CPT	Any	1.394	Body Mass Index Docd
DP02	3E0F7SF	Procedure	ICD-10-PCS	Any	1.377	Intro Oth Gas Resp Tract Nat/Art Op
DP02	3075F	Procedure	CPT	Any	1.339	Syst Bp Ge 130 - 139Mm Hg
DP02	3075F	Procedure	CPT	Frequent	1.332	Syst Bp Ge 130 - 139Mm Hg
DP02	3008F	Procedure	CPT	Frequent	1.325	Body Mass Index Docd
DP02	0W9B30Z	Procedure	ICD-10-PCS	Any	1.312	Drain Lt Pleural Cavity Drn Devc Pc
DP02	94640	Procedure	CPT	Frequent	1.272	Airway Inhalation Treatment
DP02	1126F	Procedure	CPT	Any	1.185	Amnt Pain Noted None Prsnt
DP02	5A1945Z	Procedure	ICD-10-PCS	Any	1.167	Respiratory Vent 24-96 Consec Hours
DP02	1126F	Procedure	CPT	Frequent	1.149	Amnt Pain Noted None Prsnt
DP02	C691	Dispensing	Drug Class	Frequent	1.124	Folate Antagonist Antibiotics
DP02	XW033E5	Procedure	ICD-10-PCS	Any	1.097	Intr Remdesivir Periph Vn Perc Nt5

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	99499	Procedure	CPT	Frequent	1.087	Unlisted E&M Service
DP02	J10	Diagnosis	ICD-10-CM	Often	1.084	Flu D/T Oth Id Influenza Virus
DP02	V2100	Procedure	HCPCS	Any	1.055	Spher 1 Visn Plano +/- 4.00-Lens
DP02	G0283	Procedure	HCPCS	Frequent	1.042	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	G0467	Procedure	HCPCS	Often	1.032	Fqhc Visit Established Patient
DP02	021009W	Procedure	ICD-10-PCS	Any	0.994	Bp Ca 1 Art Aorta Auto Ven Tiss Op
DP02	C158	Dispensing	Drug Class	Frequent	0.956	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP02	G0283	Procedure	HCPCS	Often	0.946	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	A0100	Procedure	HCPCS	Often	0.929	Nonemergency Transportation; Taxi
DP02	G8417	Procedure	HCPCS	Frequent	0.928	Bmi Doc Abv Nml Param & F/U Pln Doc
DP02	G0283	Procedure	HCPCS	Any	0.892	E-Stim 1/>Not Wnd Care Part Tx Plan
DP02	A0100	Procedure	HCPCS	Any	0.879	Nonemergency Transportation; Taxi
DP02	C45	Dispensing	Drug Class	Frequent	0.873	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP02	87040	Procedure	CPT	Any	0.849	Blood Culture For Bacteria
DP02	C985	Dispensing	Drug Class	Frequent	0.848	Overactive Bladder Agents
DP02	J1644	Procedure	HCPCS	Frequent	0.839	Inj Heparin Sodium Per 1000 Units
DP02	G8417	Procedure	HCPCS	Any	0.836	Bmi Doc Abv Nml Param & F/U Pln Doc
DP02	G0467	Procedure	HCPCS	Any	0.829	Fqhc Visit Established Patient
DP02	02HK3JZ	Procedure	ICD-10-PCS	Any	0.828	Ins Pacemakr Lead Rt Ventricle Perq
DP02	C691	Dispensing	Drug Class	Often	0.825	Folate Antagonist Antibiotics
DP02	96160	Procedure	CPT	Any	0.813	Pt-Focused Hlth Risk Assmt
DP02	J7030	Procedure	HCPCS	Frequent	0.806	Infus Normal Saline Sol 1000 Cc
DP02	02RF38Z	Procedure	ICD-10-PCS	Any	0.802	Repl Aortic Valv Zooplstc Tiss Perq
DP02	C691	Dispensing	Drug Class	Any	0.784	Folate Antagonist Antibiotics
DP02	J0702	Procedure	HCPCS	Any	0.779	Inj Betamethasone Ac & Phos 3 Mg
DP02	0BH17EZ	Procedure	ICD-10-PCS	Any	0.777	Insrt Et Aw Trachea Nat/Art Opening
DP02	C44	Dispensing	Drug Class	Frequent	0.770	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP02	5A2204Z	Procedure	ICD-10-PCS	Any	0.767	Restoration Cardiac Rhythm Single
DP02	94640	Procedure	CPT	Any	0.765	Airway Inhalation Treatment
DP02	J1650	Procedure	HCPCS	Frequent	0.760	Injection Enoxaparin Sodium 10 Mg
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.743	Utilization Of All ICD-10-Pcs Procedure Codes
DP02	B24BZZZ	Procedure	ICD-10-PCS	Any	0.735	Ultrasonography Of Heart With Aorta
DP02	83605	Procedure	CPT	Any	0.727	Assay Of Lactic Acid

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.709	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP02	G0152	Procedure	HCPCS	Frequent	0.700	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	C122	Dispensing	Drug Class	Often	0.688	Anticoagulants - Indanedione
DP02	G0467	Procedure	HCPCS	Frequent	0.684	Fqhc Visit Established Patient
DP02	G0157	Procedure	HCPCS	Any	0.682	Srvc Pt Assist Hh/Hospice Ea 15 Min
DP02	C917	Dispensing	Drug Class	Frequent	0.674	Nutritional Product - Msud Specific Formulation
DP02	G0378	Procedure	HCPCS	Any	0.670	Hospital Observatn Service Per Hour
DP02	02H63JZ	Procedure	ICD-10-PCS	Any	0.651	Insert Pacemkr Lead Rt Atrium Perq
DP02	B548ZZA	Procedure	ICD-10-PCS	Any	0.651	Ultrasonography Sup Vena Cava Guid
DP02	G0152	Procedure	HCPCS	Any	0.636	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	J1100	Procedure	HCPCS	Any	0.635	Inj Dexmethoson Sodim Phoshate 1 Mg
DP02	0JH606Z	Procedure	ICD-10-PCS	Any	0.633	Ins Pm Dual Chmb Chst Subq Fasc Opn
DP02	85610	Procedure	CPT	Frequent	0.624	Prothrombin Time
DP02	OST20ZZ	Procedure	ICD-10-PCS	Any	0.619	Resect Lumbar Vertebral Disc Open
DP02	0T768DZ	Procedure	ICD-10-PCS	Any	0.619	Dilat Rt Ureter Il Nat/Art Op Endo
DP02	3E033XZ	Procedure	ICD-10-PCS	Any	0.619	Intro Vasopressor Periph Vn Perq
DP02	8E0ZXY6	Procedure	ICD-10-PCS	Any	0.619	Isolation
DP02	99499	Procedure	CPT	Any	0.618	Unlisted E&M Service
DP02	G0152	Procedure	HCPCS	Often	0.606	Srvc Ot Hom Hlth/Hospice Ea 15 Min
DP02	I70	Diagnosis	ICD-10-CM	Frequent	0.604	Atherosclerosis
DP02	A0429	Procedure	HCPCS	Any	0.603	Amb Service Bls Emergency Transport
DP02	G0101	Procedure	HCPCS	Any	0.602	Cerv/Vag Cancr Scr;Pelv&Cln Brst Ex
DP02	A7039	Procedure	HCPCS	Any	0.587	Filtr Non Dispbl Pos Arway Prss Devc
DP02	83970	Procedure	CPT	Any	0.576	Assay Of Parathormone
DP02	C226	Dispensing	Drug Class	Often	0.574	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	J1650	Procedure	HCPCS	Any	0.570	Injection Enoxaparin Sodium 10 Mg
DP02	A7037	Procedure	HCPCS	Frequent	0.569	Tubing Used W/Pos Arway Press Devc
DP02	C122	Dispensing	Drug Class	Any	0.569	Anticoagulants - Indanedione
DP02	C226	Dispensing	Drug Class	Any	0.563	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP02	A7032	Procedure	HCPCS	Frequent	0.561	Cushn Nasal Mask Intf Repl Only Ea
DP02	C1017	Dispensing	Drug Class	Often	0.559	Pharmaceutical Adjuvant - Liquid Vehicles
DP02	96361	Procedure	CPT	Any	0.548	Hydrate Iv Infusion Add-On
DP02	C917	Dispensing	Drug Class	Any	0.547	Nutritional Product - Msud Specific Formulation

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP02	R41	Diagnosis	ICD-10-CM	Any	0.546	Oth Sx Signs Cog Func Awareness
DP02	F33	Diagnosis	ICD-10-CM	Frequent	0.523	Maj Depress D/O Recurrent
DP03	06L38CZ	Procedure	ICD-10-PCS	Any	3.123	Occl Ev El Devc Nat/Artif Opg Endo
DP03	06L38CZ	Procedure	ICD-10-PCS	Often	3.123	Occl Ev El Devc Nat/Artif Opg Endo
DP03	0SG00AJ	Procedure	ICD-10-PCS	Any	3.123	Fusion Lv Joint If Post Appr Ac Opn
DP03	OSP004Z	Procedure	ICD-10-PCS	Any	3.123	Removal If Devc Lumb Vert Joint Opn
DP03	OTP98DZ	Procedure	ICD-10-PCS	Any	3.123	Remv Il Dev Ureter Nat/Art Opn Endo
DP03	OTP98DZ	Procedure	ICD-10-PCS	Often	3.123	Remv Il Dev Ureter Nat/Art Opn Endo
DP03	0DJD8ZZ	Procedure	ICD-10-PCS	Any	2.430	Inspection Lw Intestinal Tract Endo
DP03	0SG0071	Procedure	ICD-10-PCS	Any	2.430	Fusion Lv Joint Auto Sub Post Pc Op
DP03	OST20ZZ	Procedure	ICD-10-PCS	Any	2.430	Resect Lumbar Vertebral Disc Open
DP03	01NB0ZZ	Procedure	ICD-10-PCS	Any	2.024	Release Lumbar Nerve Open Approach
DP03	XW033E5	Procedure	ICD-10-PCS	Often	2.024	Intr Remdesivir Periph Vn Perc Nt5
DP03	R91	Diagnosis	ICD-10-CM	Frequent	1.775	Abnormal Findings Dx Imaging Lung
DP03	XW033E5	Procedure	ICD-10-PCS	Any	1.736	Intr Remdesivir Periph Vn Perc Nt5
DP03	J98	Diagnosis	ICD-10-CM	Frequent	1.648	Other Respiratory Disorders
DP03	C42	Dispensing	Drug Class	Frequent	1.631	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	C42	Dispensing	Drug Class	Often	1.627	Alpha-Beta Blockers / Beta Blockers Non-Cardiac Selective, All
DP03	R60	Diagnosis	ICD-10-CM	Frequent	1.622	Edema Not Elsewhere Classified
DP03	027034Z	Procedure	ICD-10-PCS	Any	1.619	Dil Ca 1 Art Rx-Elut Il Devc Perq
DP03	A7033	Procedure	HCPCS	Any	1.559	Pillw Nasl Cannula Type Intf Repl
DP03	I50	Diagnosis	ICD-10-CM	Frequent	1.482	Heart Failure
DP03	Z51	Diagnosis	ICD-10-CM	Frequent	1.431	Encounter For Other Aftercare
DP03	C1004	Dispensing	Drug Class	Frequent	1.399	Periodontal Product - Anti-Infectives
DP03	C1008	Dispensing	Drug Class	Any	1.399	Pharmaceutical Adjuvant - Capsule Excipients
DP03	OSRD0J9	Procedure	ICD-10-PCS	Any	1.331	Repl L Knee Joint Synth Cmentd Open
DP03	G8484	Procedure	HCPCS	Any	1.296	Flu Immun Not Adm Reason Not Given
DP03	30233N1	Procedure	ICD-10-PCS	Any	1.251	Tran Nauto Red Bld Cll Periph Vn Pc
DP03	C423	Dispensing	Drug Class	Often	1.234	Choleretics
DP03	E0601	Procedure	HCPCS	Frequent	1.234	Continuous Pos Airway Pressure Devc
DP03	E1390	Procedure	HCPCS	Often	1.234	O2 Conc 85%/>O2 Conc Prsc Flw Rate
DP03	J44	Diagnosis	ICD-10-CM	Frequent	1.208	Other Copd
DP03	J8499	Procedure	HCPCS	Any	1.201	Prsc Rx Oral Nonchemothapeutic Nos

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	027034Z	Procedure	ICD-10-PCS	Often	1.177	Dil Ca 1 Art Rx-Elut II Devc Perq
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Any	1.177	Inspect Upper Intestine Tract Endo
DP03	0DJ08ZZ	Procedure	ICD-10-PCS	Often	1.177	Inspect Upper Intestine Tract Endo
DP03	8E0W4CZ	Procedure	ICD-10-PCS	Any	1.177	Robotic Asstd Proc Trunk Perq Endo
DP03	99232	Procedure	CPT	Frequent	1.168	Subsequent Hospital Care
DP03	G9637	Procedure	HCPCS	Any	1.147	Final Rpt Doc 1/More Dose Red Tech
DP03	A7037	Procedure	HCPCS	Frequent	1.140	Tubing Used W/Pos Arway Press Devc
DP03	G8754	Procedure	HCPCS	Frequent	1.111	Most Recent Diastolic Bp < 90Mm Hg
DP03	G8950	Procedure	HCPCS	Any	1.069	Prehtrn/Htn Bp Doc & Indicat F/U Doc
DP03	A7030	Procedure	HCPCS	Frequent	1.067	Full Fce Mask Pos Arway Prss Dev Ea
DP03	C169	Dispensing	Drug Class	Often	1.067	Antidepressant Combinations / Antidepressant-Norepinephrine And Dopamine
DP03	G8732	Procedure	HCPCS	Any	1.067	No Doc Pain Asmt Reason Not Given
DP03	30233N1	Procedure	ICD-10-PCS	Often	1.043	Tran Nauto Red Bld ClI Periph Vn Pc
DP03	C1173	Dispensing	Drug Class	Frequent	1.036	Unclassified Drug Products
DP03	G8753	Procedure	HCPCS	Any	1.020	Most Recent Systolic Bp >= 140Mm Hg
DP03	I50	Diagnosis	ICD-10-CM	Often	1.004	Heart Failure
DP03	C1004	Dispensing	Drug Class	Often	0.988	Periodontal Product - Anti-Infectives
DP03	D64	Diagnosis	ICD-10-CM	Often	0.984	Other Anemias
DP03	C394	Dispensing	Drug Class	Frequent	0.983	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP03	H35	Diagnosis	ICD-10-CM	Frequent	0.978	Other Retinal Disorders
DP03	99215	Procedure	CPT	Frequent	0.975	Office O/P Est Hi 40-54 Min
DP03	E0601	Procedure	HCPCS	Often	0.972	Continuous Pos Airway Pressure Devc
DP03	71045	Procedure	CPT	Any	0.964	X-Ray Exam Chest 1 View
DP03	N/A	Procedure	ICD-10-PCS	1st Quartile	0.963	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	G8419	Procedure	HCPCS	Any	0.955	Bmi Doc Out NI Parm No F/U Doc No R
DP03	G0442	Procedure	HCPCS	Any	0.948	Annual Alcohol Misuse Screen 15 Min
DP03	C364	Dispensing	Drug Class	Often	0.946	Asthma Therapy - Monoclonal Antibodies To Immunoglobulin E (Ige)
DP03	G8752	Procedure	HCPCS	Frequent	0.938	Most Recent Systolic Bp < 140Mm Hg
DP03	B35	Diagnosis	ICD-10-CM	Frequent	0.933	Dermatophytosis
DP03	3E0T3BZ	Procedure	ICD-10-PCS	Any	0.925	Intro Anes Agt Periph Nrv&Plexi Pc
DP03	A4550	Procedure	HCPCS	Frequent	0.925	Surgical Trays
DP03	C164	Dispensing	Drug Class	Frequent	0.920	Antidepressant - Serotonin-2 Antagonist-Reuptake Inhibitors (Saris)
DP03	E0431	Procedure	HCPCS	Any	0.920	Prtble Gaseous O2 Sys Rental;



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	G9551	Procedure	HCPCS	Any	0.920	F Rpt Imag Stdy W/O Incdntl Les Ntd
DP03	Z90	Diagnosis	ICD-10-CM	Frequent	0.915	Acquired Absence Of Organs Nec
DP03	Q9967	Procedure	HCPCS	Any	0.909	Locm 300-399 Mg/MI I Conc Per MI
DP03	C986	Dispensing	Drug Class	Often	0.903	Oxazolidinone Antibiotics
DP03	C683	Dispensing	Drug Class	Frequent	0.885	Factor X Preparations
DP03	C973	Dispensing	Drug Class	Often	0.882	Ophthalmic-Intraocular Pressure Reducing Agents, Prostaglandin Analogs
DP03	R50	Diagnosis	ICD-10-CM	Frequent	0.866	Fever Of Other And Unknown Origin
DP03	C679	Dispensing	Drug Class	Frequent	0.854	Factor Ix Preparations
DP03	1160F	Procedure	CPT	Frequent	0.849	Rvw Meds By Rx/Dr In Rcrd
DP03	A0427	Procedure	HCPCS	Any	0.848	Amb Srvs Als Emerg Transport Lev1
DP03	3008F	Procedure	CPT	Frequent	0.838	Body Mass Index Docd
DP03	Z51	Diagnosis	ICD-10-CM	Often	0.833	Encounter For Other Aftercare
DP03	C669	Dispensing	Drug Class	Any	0.830	Emergency Contraceptive Combinations
DP03	A9585	Procedure	HCPCS	Any	0.829	Injection Gadobutrol 0.1 Ml
DP03	G0008	Procedure	HCPCS	Any	0.821	Administration Influenza Virus Vacc
DP03	02HV33Z	Procedure	ICD-10-PCS	Often	0.820	Insrt Infus Devc Sup Vena Cava Perq
DP03	B2151ZZ	Procedure	ICD-10-PCS	Often	0.820	Fluoro Lt Heart Low Osmolar Contrst
DP03	C1149	Dispensing	Drug Class	Frequent	0.809	Anesthetics
DP03	R00	Diagnosis	ICD-10-CM	Frequent	0.801	Abnormalities Of Heart Beat
DP03	C1149	Dispensing	Drug Class	Often	0.779	Anesthetics
DP03	R06	Diagnosis	ICD-10-CM	Frequent	0.772	Abnormalities Of Breathing
DP03	4A023N7	Procedure	ICD-10-PCS	Any	0.771	Measur Card Sampl Press Lt Heart Pc
DP03	G2023	Procedure	HCPCS	Any	0.771	Spec Clct Sars-Cov2 Covid19 Any Src
DP03	J1885	Procedure	HCPCS	Any	0.771	Inj Ketorolac Tromethamine 15 Mg
DP03	N/A	Procedure	ICD-10-PCS	4rd Quartile	0.769	Utilization Of All ICD-10-Pcs Procedure Codes
DP03	C1172	Dispensing	Drug Class	Frequent	0.766	Unclassified Drug Products
DP03	J1040	Procedure	HCPCS	Any	0.765	Inj Methylprdnisolone Actat 80 Mg
DP03	E11	Diagnosis	ICD-10-CM	Frequent	0.753	Type 2 Diabetes Mellitus
DP03	C985	Dispensing	Drug Class	Any	0.749	Overactive Bladder Agents
DP03	R51	Diagnosis	ICD-10-CM	Frequent	0.742	Headache
DP03	H90	Diagnosis	ICD-10-CM	Frequent	0.727	Conductive Sensorineural Hear Loss
DP03	N/A	Procedure	ICD-10-PCS	1st Quartile	0.727	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP03	J1071	Procedure	HCPCS	Frequent	0.725	Inj Testosterone Cypionate 1 Mg

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP03	A7037	Procedure	HCPCS	Any	0.722	Tubing Used W/Pos Arway Press Devc
DP03	J98	Diagnosis	ICD-10-CM	Any	0.715	Other Respiratory Disorders
DP03	M99	Diagnosis	ICD-10-CM	Frequent	0.711	Biomechanical Lesions Nec
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	2.577	Utilization Of Unique ICD-10-Pcs Procedure Codes
DP04	G0127	Procedure	HCPCS	Frequent	2.545	Trim Dystrophic Nails Any Number
DP04	N/A	Procedure	ICD-10-PCS	2nd Quartile	2.513	Utilization Of All ICD-10-Pcs Procedure Codes
DP04	T4527	Procedure	HCPCS	Often	2.368	Adlt Szd Dispbl Incont Undwear Lg
DP04	1160F	Procedure	CPT	Frequent	2.265	Rvw Meds By Rx/Dr In Rcrd
DP04	A4253	Procedure	HCPCS	Often	2.265	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	Z68	Diagnosis	ICD-10-CM	Frequent	2.265	Body Mass Index Bmi
DP04	3008F	Procedure	CPT	Frequent	2.202	Body Mass Index Docd
DP04	R32	Diagnosis	ICD-10-CM	Frequent	2.027	Unspecified Urinary Incontinence
DP04	D0274	Procedure	HCPCS	Any	1.999	Bitewings - Four Radiographc Images
DP04	T4541	Procedure	HCPCS	Often	1.971	Incont Product Dispbl Undpad Lg Ea
DP04	C880	Dispensing	Drug Class	Frequent	1.953	Musculoskeletal Tx Agent-Joint Contracture Therapy, Collagenase Enzyme
DP04	C1157	Dispensing	Drug Class	Any	1.895	Biologicals
DP04	T4527	Procedure	HCPCS	Any	1.884	Adlt Szd Dispbl Incont Undwear Lg
DP04	3078F	Procedure	CPT	Frequent	1.876	Diast Bp <80 Mm Hg
DP04	A4253	Procedure	HCPCS	Any	1.851	Bld Glu Tst/Reagt Strips Hom Mon-50
DP04	C559	Dispensing	Drug Class	Frequent	1.812	Dermatological - Tissue/Wound Adhesives - Fibrin Sealants
DP05	0WQF0ZZ	Procedure	ICD-10-PCS	Any	2.981	Repair Abdominal Wall Open
DP05	0SRD0J9	Procedure	ICD-10-PCS	Any	2.827	Repl L Knee Joint Synth Cmentd Open
DP05	C224	Dispensing	Drug Class	Frequent	2.088	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP05	J7030	Procedure	HCPCS	Any	2.069	Infus Normal Saline Sol 1000 Cc
DP05	R91	Diagnosis	ICD-10-CM	Any	1.963	Abnormal Findings Dx Imaging Lung
DP05	R91	Diagnosis	ICD-10-CM	Frequent	1.718	Abnormal Findings Dx Imaging Lung
DP05	0SRC0J9	Procedure	ICD-10-PCS	Any	1.713	Repl R Knee Joint Synth Cmentd Open
DP05	C224	Dispensing	Drug Class	Often	1.713	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP05	C224	Dispensing	Drug Class	Any	1.612	Antihyperlipidemic - Apolipoprotein B-100 Synthesis Inhibitor
DP05	G8427	Procedure	HCPCS	Frequent	1.554	Elig Clin Doc M Updtd Rec Pt Meds
DP05	G0151	Procedure	HCPCS	Any	1.528	Srv Pt Hom Hlth/Hospice Ea 15 Min
DP05	3078F	Procedure	CPT	Frequent	1.510	Diast Bp <80 Mm Hg
DP05	4040F	Procedure	CPT	Frequent	1.455	Pneumoc Vac/Admin/Rcvd



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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	C338	Dispensing	Drug Class	Any	1.441	Antithyroid Agents
DP05	G8432	Procedure	HCPCS	Any	1.420	Depression Scr Not Doc Rsn Not Gvn
DP05	1123F	Procedure	CPT	Any	1.419	Acp Discuss/Dscn Mkr Docd
DP05	3079F	Procedure	CPT	Any	1.377	Diast Bp 80-89 Mm Hg
DP05	M51	Diagnosis	ICD-10-CM	Frequent	1.365	Thoracic Tl & Ls Intervert Disc D/O
DP05	G8417	Procedure	HCPCS	Frequent	1.342	Bmi Doc Abv Nml Param & F/U Pln Doc
DP05	1123F	Procedure	CPT	Frequent	1.341	Acp Discuss/Dscn Mkr Docd
DP05	I11	Diagnosis	ICD-10-CM	Frequent	1.341	Hypertensive Heart Disease
DP05	K21	Diagnosis	ICD-10-CM	Frequent	1.336	Gastro-Esophageal Reflux Disease
DP05	J10	Diagnosis	ICD-10-CM	Any	1.328	Flu D/T Oth Id Influenza Virus
DP05	D4910	Procedure	HCPCS	Any	1.298	Periodontal Maintenance
DP05	C45	Dispensing	Drug Class	Any	1.280	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP05	G0103	Procedure	HCPCS	Any	1.251	Prostate Cancer Screening; Psa Test
DP05	C168	Dispensing	Drug Class	Any	1.246	Antidepressant Combinations
DP05	71045	Procedure	CPT	Frequent	1.245	X-Ray Exam Chest 1 View
DP05	C158	Dispensing	Drug Class	Frequent	1.243	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP05	G8754	Procedure	HCPCS	Any	1.234	Most Recent Diastolic Bp < 90Mm Hg
DP05	3008F	Procedure	CPT	Frequent	1.227	Body Mass Index Docd
DP05	C1158	Dispensing	Drug Class	Frequent	1.208	Biologicals
DP05	J1650	Procedure	HCPCS	Any	1.188	Injection Enoxaparin Sodium 10 Mg
DP05	1126F	Procedure	CPT	Any	1.180	Amnt Pain Noted None Prsnt
DP05	C921	Dispensing	Drug Class	Frequent	1.154	Nutritional Product - Medical Condition Specific Formulation / Nutritional Product -
DP05	3074F	Procedure	CPT	Frequent	1.147	Syst Bp Lt 130 Mm Hg
DP05	G8732	Procedure	HCPCS	Any	1.146	No Doc Pain Asmt Reason Not Given
DP05	C684	Dispensing	Drug Class	Often	1.136	Factor Xiii Preparations
DP05	C691	Dispensing	Drug Class	Frequent	1.136	Folate Antagonist Antibiotics
DP05	S0621	Procedure	HCPCS	Any	1.134	Routine Ophth Ex W/Refrac; Est Pt
DP05	C221	Dispensing	Drug Class	Frequent	1.118	Antihyperlipidemic - Omega-3 Fatty Acid Type / Antihyperlipidemic Agents Other
DP05	C175	Dispensing	Drug Class	Any	1.117	Antidiarrheal - Bismuth Agents
DP05	G8752	Procedure	HCPCS	Any	1.094	Most Recent Systolic Bp < 140Mm Hg
DP05	C921	Dispensing	Drug Class	Any	1.092	Nutritional Product - Medical Condition Specific Formulation / Nutritional Product -
DP05	N/A	Diagnosis	ICD-9-CM	4rd Quartile	1.073	Utilization Of All ICD-9-Cm Diagnosis Codes
DP05	I50	Diagnosis	ICD-10-CM	Often	1.070	Heart Failure

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	G8783	Procedure	HCPCS	Any	1.068	Normal Bp Reading Doc F/U Not Rqr
DP05	J44	Diagnosis	ICD-10-CM	Frequent	1.068	Other Copd
DP05	R51	Diagnosis	ICD-10-CM	Frequent	1.062	Headache
DP05	G8417	Procedure	HCPCS	Any	1.058	Bmi Doc Abv Nml Param & F/U Pln Doc
DP05	C346	Dispensing	Drug Class	Any	1.054	Aromatic Antitussive Demulcents
DP05	G9637	Procedure	HCPCS	Any	1.050	Final Rpt Doc 1/More Dose Red Tech
DP05	96374	Procedure	CPT	Any	1.036	Ther/Proph/Diag Inj Iv Push
DP05	C691	Dispensing	Drug Class	Often	1.026	Folate Antagonist Antibiotics
DP05	J2270	Procedure	HCPCS	Any	1.024	Inj Morphine Sulfate Up To 10 Mg
DP05	C1126	Dispensing	Drug Class	Frequent	1.022	Vaginal Antibacterials
DP05	97140	Procedure	CPT	Frequent	1.018	Manual Therapy 1/> Regions
DP05	C973	Dispensing	Drug Class	Any	1.008	Ophthalmic-Intraocular Pressure Reducing Agents, Prostaglandin Analogs
DP05	C104	Dispensing	Drug Class	Any	1.006	Antiarrhythmic - Class I
DP05	C9803	Procedure	HCPCS	Any	1.006	Placeholder Only - Code Has Not Bee
DP05	C985	Dispensing	Drug Class	Any	0.991	Overactive Bladder Agents
DP05	C1119	Dispensing	Drug Class	Any	0.985	Uterine Relaxant - Beta-Adrenergic Agents
DP05	J2405	Procedure	HCPCS	Any	0.983	Injection Ondansetron Hcl Per 1 Mg
DP05	A9270	Procedure	HCPCS	Frequent	0.968	Noncovered Item Or Service
DP05	G0151	Procedure	HCPCS	Often	0.957	Srvc Pt Hom Hlth/Hospice Ea 15 Min
DP05	D1206	Procedure	HCPCS	Any	0.948	Topical Applicatn Fluoride Varnish
DP05	C1119	Dispensing	Drug Class	Often	0.943	Uterine Relaxant - Beta-Adrenergic Agents
DP05	D0230	Procedure	HCPCS	Any	0.938	Io-Periapical Ea Add Radiogrph Imag
DP05	C1119	Dispensing	Drug Class	Frequent	0.936	Uterine Relaxant - Beta-Adrenergic Agents
DP05	Z95	Diagnosis	ICD-10-CM	Frequent	0.936	Presence Card&Vascular Implants&Gft
DP05	J7040	Procedure	HCPCS	Any	0.931	Infus Normal Saline Sol Sterile
DP05	G0283	Procedure	HCPCS	Frequent	0.923	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	C1098	Dispensing	Drug Class	Frequent	0.922	Streptogramin Antibiotics
DP05	C378	Dispensing	Drug Class	Frequent	0.907	Attention Deficit-Hyperactivity Disorder (Adhd) Therapy, Nri-Type
DP05	3077F	Procedure	CPT	Frequent	0.904	Syst Bp ≥ 140 Mm Hg
DP05	D64	Diagnosis	ICD-10-CM	Frequent	0.892	Other Anemias
DP05	Z80	Diagnosis	ICD-10-CM	Any	0.890	Fam Hx Primary Malignant Neoplasm
DP05	C971	Dispensing	Drug Class	Any	0.888	Ophthalmic Decongestant Combinations
DP05	C1173	Dispensing	Drug Class	Any	0.885	Unclassified Drug Products

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP05	81001	Procedure	CPT	Frequent	0.884	Urinalysis Auto W/Scope
DP05	J1030	Procedure	HCPCS	Any	0.880	Inj Methylprdnisolone Actat 40 Mg
DP05	Z95	Diagnosis	ICD-10-CM	Any	0.871	Presence Card&Vascular Implants&Gft
DP05	3074F	Procedure	CPT	Any	0.870	Syst Bp Lt 130 Mm Hg
DP05	C158	Dispensing	Drug Class	Often	0.858	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP05	C760	Dispensing	Drug Class	Frequent	0.855	Immunosuppressive - Monoclonal Antibody Inhib. T Lymphocyte Function
DP05	G0283	Procedure	HCPCS	Any	0.852	E-Stim 1/>Not Wnd Care Part Tx Plan
DP05	C209	Dispensing	Drug Class	Frequent	0.851	Antifungal Other
DP05	97530	Procedure	CPT	Frequent	0.850	Therapeutic Activities
DP05	85610	Procedure	CPT	Frequent	0.845	Prothrombin Time
DP05	C226	Dispensing	Drug Class	Often	0.840	Antihyperlipidemic Agents Other / Dietary Product - Dietary Supplements
DP05	93010	Procedure	CPT	Frequent	0.833	Electrocardiogram Report
DP05	C132	Dispensing	Drug Class	Any	0.830	Anticonvulsant - Functionalized Amino Acid
DP05	C175	Dispensing	Drug Class	Often	0.830	Antidiarrheal - Bismuth Agents
DP05	7999	Diagnosis	ICD-9-CM	Frequent	0.821	Oth Unkn&Uns Cause Morbdty/Mrtalty
DP05	C880	Dispensing	Drug Class	Any	0.814	Musculoskeletal Tx Agent-Joint Contracture Therapy, Collagenase Enzyme
DP05	J1040	Procedure	HCPCS	Any	0.812	Inj Methylprdnisolone Actat 80 Mg
DP05	C394	Dispensing	Drug Class	Any	0.802	Bone Resorption Inhibitors / Calcium And Bone Metabolism Regulators - Other
DP05	C261	Dispensing	Drug Class	Any	0.798	Antineoplastic - Braf Kinase Inhibitors / Antineoplastic - Multikinase Inhibitors
DP05	C691	Dispensing	Drug Class	Any	0.794	Folate Antagonist Antibiotics
DP05	C458	Dispensing	Drug Class	Any	0.793	Dental Product - Local Anesthetics / Mouth And Throat - Local Anesthetic
DP06	G8988	Procedure	HCPCS	Frequent	3.314	Self Care Fcn Limitatn Goal At D/C
DP06	G8997	Procedure	HCPCS	Any	2.960	Swllow Fcn Lim Goal Tx Epis&D/C Tx
DP06	G8996	Procedure	HCPCS	Any	2.923	Swallow Fcn Lim Cur Status Init Tx
DP06	G8987	Procedure	HCPCS	Frequent	2.723	Slf Care Fcn Lim Cur Rep Intervls
DP06	P9603	Procedure	HCPCS	Frequent	2.678	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	G0471	Procedure	HCPCS	Frequent	2.468	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	G8988	Procedure	HCPCS	Often	2.453	Self Care Fcn Limitatn Goal At D/C
DP06	P9604	Procedure	HCPCS	Frequent	2.439	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	G8989	Procedure	HCPCS	Any	2.325	Self Care Func Lim D/C Status D/C
DP06	G8987	Procedure	HCPCS	Often	2.316	Slf Care Fcn Lim Cur Rep Intervls
DP06	P9603	Procedure	HCPCS	Often	2.287	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	P9604	Procedure	HCPCS	Often	2.273	Travl 1 Way Nec Lab Spec; Trip Chrg

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Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	G0471	Procedure	HCPCS	Often	2.266	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	G0471	Procedure	HCPCS	Any	2.181	Coll V Bld Vp/Urn Smp Cath Ind Snf
DP06	P9604	Procedure	HCPCS	Any	2.154	Travl 1 Way Nec Lab Spec; Trip Chrg
DP06	C808	Dispensing	Drug Class	Frequent	2.097	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP06	P9603	Procedure	HCPCS	Any	2.016	Travl 1 Way Nec Lab Spec; Actl Mile
DP06	G8982	Procedure	HCPCS	Frequent	1.993	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	A0428	Procedure	HCPCS	Frequent	1.937	Amb Service Bls Nonemerg Transport
DP06	C133	Dispensing	Drug Class	Often	1.912	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	99309	Procedure	CPT	Frequent	1.830	Nursing Fac Care Subseq
DP06	G8987	Procedure	HCPCS	Any	1.804	Slf Care Fcn Lim Cur Rep Intervls
DP06	99309	Procedure	CPT	Any	1.802	Nursing Fac Care Subseq
DP06	99309	Procedure	CPT	Often	1.799	Nursing Fac Care Subseq
DP06	R0075	Procedure	HCPCS	Any	1.771	Trans Prtbl Xray Eqp&Pers-Trip>1 Pt
DP06	G8988	Procedure	HCPCS	Any	1.759	Self Care Fcn Limitatn Goal At D/C
DP06	Q0092	Procedure	HCPCS	Frequent	1.757	Set-Up Portable X-Ray Equipment
DP06	99308	Procedure	CPT	Any	1.733	Nursing Fac Care Subseq
DP06	99308	Procedure	CPT	Frequent	1.714	Nursing Fac Care Subseq
DP06	G8980	Procedure	HCPCS	Any	1.709	Mob:Wlk&Mov Arnd Fcn Lim D/C At D/C
DP06	G8982	Procedure	HCPCS	Often	1.706	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	99308	Procedure	CPT	Often	1.694	Nursing Fac Care Subseq
DP06	C133	Dispensing	Drug Class	Frequent	1.681	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	G8981	Procedure	HCPCS	Often	1.663	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	C133	Dispensing	Drug Class	Any	1.653	Anticonvulsant - Functionalized Amino Acid / Anticonvulsant Others
DP06	C151	Dispensing	Drug Class	Often	1.650	Anticonvulsant - Sulfonamide Derivatives
DP06	R0070	Procedure	HCPCS	Frequent	1.645	Trans Prtbl Xray Eqp&Pers-Trip 1 Pt
DP06	A0428	Procedure	HCPCS	Any	1.609	Amb Service Bls Nonemerg Transport
DP06	99307	Procedure	CPT	Any	1.608	Nursing Fac Care Subseq
DP06	C808	Dispensing	Drug Class	Often	1.604	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP06	Q0092	Procedure	HCPCS	Any	1.601	Set-Up Portable X-Ray Equipment
DP06	R13	Diagnosis	ICD-10-CM	Frequent	1.590	Aphagia And Dysphagia
DP06	C338	Dispensing	Drug Class	Frequent	1.580	Antithyroid Agents
DP06	C151	Dispensing	Drug Class	Frequent	1.572	Anticonvulsant - Sulfonamide Derivatives
DP06	C122	Dispensing	Drug Class	Frequent	1.561	Anticoagulants - Indanedione

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	R0070	Procedure	HCPCS	Any	1.558	Trans Prtbl Xray Eq&Pers-Trip 1 Pt
DP06	G8979	Procedure	HCPCS	Frequent	1.556	Mob: Walk Mov Around Fcn Lim Goal
DP06	97535	Procedure	CPT	Often	1.540	Self Care Mngment Training
DP06	C158	Dispensing	Drug Class	Frequent	1.528	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	97535	Procedure	CPT	Frequent	1.523	Self Care Mngment Training
DP06	G8978	Procedure	HCPCS	Frequent	1.503	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C808	Dispensing	Drug Class	Any	1.502	Migraine Therapy - Nsaid Analgesics(Cyclooxygenase Inhib-Non-Selectiv) / Migraine
DP06	F03	Diagnosis	ICD-10-CM	Frequent	1.463	Unspecified Dementia
DP06	97116	Procedure	CPT	Often	1.458	Gait Training Therapy
DP06	97116	Procedure	CPT	Frequent	1.453	Gait Training Therapy
DP06	99307	Procedure	CPT	Often	1.434	Nursing Fac Care Subseq
DP06	A0425	Procedure	HCPCS	Frequent	1.432	Ground Mileage Per Statute Mile
DP06	C158	Dispensing	Drug Class	Often	1.378	Antidepressant - N-Methyl D-Aspartate (Nmda) Receptor Antagonist
DP06	G0467	Procedure	HCPCS	Frequent	1.376	Fqhc Visit Established Patient
DP06	99307	Procedure	CPT	Frequent	1.357	Nursing Fac Care Subseq
DP06	G8979	Procedure	HCPCS	Often	1.342	Mob: Walk Mov Around Fcn Lim Goal
DP06	F03	Diagnosis	ICD-10-CM	Often	1.336	Unspecified Dementia
DP06	G8978	Procedure	HCPCS	Often	1.332	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	5A1D70Z	Procedure	ICD-10-PCS	Frequent	1.276	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP06	C338	Dispensing	Drug Class	Often	1.275	Antithyroid Agents
DP06	G8982	Procedure	HCPCS	Any	1.270	Chng&Maint Bdy Pstn Fcn Lim Proj Gl
DP06	G8981	Procedure	HCPCS	Any	1.267	Chng&Maint Bdy Pstn Fcn Lim Rep Int
DP06	C45	Dispensing	Drug Class	Often	1.251	Alzheimer'S Disease Therapy - Nmda Receptor Antagonists
DP06	G0127	Procedure	HCPCS	Often	1.223	Trim Dystrophic Nails Any Number
DP06	G0127	Procedure	HCPCS	Any	1.205	Trim Dystrophic Nails Any Number
DP06	F03	Diagnosis	ICD-10-CM	Any	1.192	Unspecified Dementia
DP06	C679	Dispensing	Drug Class	Frequent	1.176	Factor Ix Preparations
DP06	C44	Dispensing	Drug Class	Often	1.168	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	B548ZZA	Procedure	ICD-10-PCS	Any	1.143	Ultrasonography Sup Vena Cava Guid
DP06	C44	Dispensing	Drug Class	Frequent	1.138	Alzheimer'S Disease Therapy - Cholinesterase Inhibitors
DP06	C423	Dispensing	Drug Class	Frequent	1.127	Choleretics
DP06	C104	Dispensing	Drug Class	Frequent	1.117	Antiarrhythmic - Class I
DP06	11720	Procedure	CPT	Often	1.102	Debride Nail 1-5

**Appendix I. Top 100 Codes Ranked by Exposure Association Selected by the High Dimensional Propensity Score Algorithm for Baloxavir versus Oseltamivir Model (Ages 65 and Older, Fixed Ratio 1:1, Caliper: 0.025) in the Sentinel Distributed Database (SDD) from October 24, 2018 to April 30, 2023, by Data Partner (DP)**

Masked						
DP ID	Code	Code Category	Code Type	Frequency <sup>1</sup>	Ranking	Description
DP06	C985	Dispensing	Drug Class	Frequent	1.096	Overactive Bladder Agents
DP06	11720	Procedure	CPT	Any	1.087	Debride Nail 1-5
DP06	R13	Diagnosis	ICD-10-CM	Often	1.079	Aphagia And Dysphagia
DP06	R41	Diagnosis	ICD-10-CM	Frequent	1.059	Oth Sx Signs Cog Func Awareness
DP06	G8978	Procedure	HCPCS	Any	1.055	Mob:Walk Mov Arnd Fcn Lim Cur Sts
DP06	C858	Dispensing	Drug Class	Frequent	1.046	Mouth And Throat - Local Anesthetic Mixtures
DP06	G8979	Procedure	HCPCS	Any	1.032	Mob: Walk Mov Around Fcn Lim Goal
DP06	C1169	Dispensing	Drug Class	Frequent	1.023	Autonomic Drugs
DP06	5A1D70Z	Procedure	ICD-10-PCS	Any	1.005	Prfrm Urin Filtrt Intermit<6 Hr/Day
DP06	C977	Dispensing	Drug Class	Frequent	1.005	Otic (Ear) - Anti-Infective-Glucocorticoid Combinations
DP06	3E0G76Z	Procedure	ICD-10-PCS	Any	1.001	Intro Nut Sbstnc Ugi Via Nat/Art Op
DP06	A0429	Procedure	HCPCS	Any	0.999	Amb Service Bls Emergency Transport
DP06	C326	Dispensing	Drug Class	Often	0.999	Antiparkinson'S Adjuvants
DP06	11721	Procedure	CPT	Often	0.991	Debride Nail 6 Or More
DP06	C326	Dispensing	Drug Class	Frequent	0.974	Antiparkinson'S Adjuvants
DP06	97116	Procedure	CPT	Any	0.970	Gait Training Therapy
DP06	B2181ZZ	Procedure	ICD-10-PCS	Any	0.964	Fluoro Lt Int Mam Bp Gft Lw Os Cont
DP06	C164	Dispensing	Drug Class	Frequent	0.959	Antidepressant - Serotonin-2 Antagonist-Reuptake Inhibitors (Saris)
DP06	0JH63XZ	Procedure	ICD-10-PCS	Any	0.958	Ins Tun Vasc Ac Dvc Chest Sq T&F Pc
DP06	0D9670Z	Procedure	ICD-10-PCS	Any	0.947	Drain Stomach Drain Devc Nat/Art Op
DP06	03HY32Z	Procedure	ICD-10-PCS	Any	0.942	Insert Monit Devc Upper Artery Perq
DP06	009U3ZX	Procedure	ICD-10-PCS	Any	0.931	Drainage Spinal Canal Perq Appr Dx

<sup>1</sup> The code frequency column describes which prevalence indicator was chosen for inclusion in the hdPS model. Prevalence is classified according to the number of times that particular code appears in a record. Code frequency is described as "any" when the code appears in the hdPS evaluation window at least once. Codes appearing as or more often than the median number of appearances across all patients in the dataset are described as "often," and codes appearing as or more often than the 75th percentile of the distribution of occurrences are described as "frequent." The frequency with which health services are utilized ("Utilization" Code) by patients is not classified into "any," "often," and "frequent," but rather into four quartiles: 1st (≤ 25th), 2nd (>25th but ≤50th), 3rd (>50th but ≤75th), and 4th (>75th).

**Appendix J. Generic and Brand Names of Medical Products Used to Define Exposure of Interest in this Request**

Generic Name	Brand Name
baloxavir marboxil	Baloxavir Xofluza

**Appendix K. Generic and Brand Names of Medical Products Used to Define Comparator in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
	<b>Osetamivir</b>
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu



**Appendix L. Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Comparator in this Request**

Code	Description	Code Category	Code Type
<b>Oseltamivir</b>			
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix M. Generic and Brand Names of Medical Products Used to Define Censor-Defining Codes in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
	<b>Baloxavir</b>
baloxavir marboxil	Xofluza
	<b>Osetamivir</b>
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu

**Appendix N. Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Censor-Defining Codes in this Request**

Code	Description	Code Category	Code Type
<b>Osetamivir</b>			
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix O. Generic and Brand Names of Medical Products Used to Define Exclusions in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
	<b>Baloxavir</b>
baloxavir marboxil	Xofluza
	<b>Oseltamivir</b>
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code Category	Code Type
<b>Oseltamivir</b>			
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
<b>Inpatient Encounter</b>			
	Inpatient Encounter	Encounter	AD
<b>Institutional Stay Encounter</b>			
	Institutional Stay	Encounter	AD
<b>Live Birth Codes</b>			
0W8NXZZ	Division of Female Perineum, External Approach	Procedure	ICD-10-PCS
10900ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Open Approach	Procedure	ICD-10-PCS
10903ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
10904ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10907ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10908ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10D00Z0	Extraction of Products of Conception, Classical, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low Cervical, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z7	Extraction of Products of Conception, Internal Version, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z8	Extraction of Products of Conception, Other, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10E0XZZ	Delivery of Products of Conception, External Approach	Procedure	ICD-10-PCS
10S07ZZ	Reposition Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
59400	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care	Procedure	CPT-4
59409	Vaginal delivery only (with or without episiotomy and/or forceps);	Procedure	CPT-4
59410	Vaginal delivery only (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care	Procedure	CPT-4
59514	Cesarean delivery only;	Procedure	CPT-4
59515	Cesarean delivery only; including postpartum care	Procedure	CPT-4
59610	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care, after previous cesarean delivery	Procedure	CPT-4
59612	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps);	Procedure	CPT-4

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code Category	Code Type
59614	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59618	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery	Procedure	CPT-4
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	Procedure	CPT-4
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	Procedure	CPT-4
O1002	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1012	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1042	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1092	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
O114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1204	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
O1214	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1224	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1404	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1414	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O1494	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O164	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O252	Malnutrition in childbirth	Diagnosis	ICD-10-CM
O2662	Liver and biliary tract disorders in childbirth	Diagnosis	ICD-10-CM
O2672	Subluxation of symphysis (pubis) in childbirth	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code Category	Code Type
O6012X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6013X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6014X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6014X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6022X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6022X1	Term delivery with preterm labor, second trimester, fetus 1	Diagnosis	ICD-10-CM
O6022X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O6022X3	Term delivery with preterm labor, second trimester, fetus 3	Diagnosis	ICD-10-CM
O6022X4	Term delivery with preterm labor, second trimester, fetus 4	Diagnosis	ICD-10-CM
O6022X5	Term delivery with preterm labor, second trimester, fetus 5	Diagnosis	ICD-10-CM
O6022X9	Term delivery with preterm labor, second trimester, other fetus	Diagnosis	ICD-10-CM
O6023X0	Term delivery with preterm labor, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6023X1	Term delivery with preterm labor, third trimester, fetus 1	Diagnosis	ICD-10-CM
O6023X2	Term delivery with preterm labor, third trimester, fetus 2	Diagnosis	ICD-10-CM
O6023X3	Term delivery with preterm labor, third trimester, fetus 3	Diagnosis	ICD-10-CM
O6023X4	Term delivery with preterm labor, third trimester, fetus 4	Diagnosis	ICD-10-CM
O6023X5	Term delivery with preterm labor, third trimester, fetus 5	Diagnosis	ICD-10-CM
O6023X9	Term delivery with preterm labor, third trimester, other fetus	Diagnosis	ICD-10-CM
O632	Delayed delivery of second twin, triplet, etc	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	Diagnosis	ICD-10-CM
O678	Other intrapartum hemorrhage	Diagnosis	ICD-10-CM
O679	Intrapartum hemorrhage, unspecified	Diagnosis	ICD-10-CM
O68	Labor and delivery complicated by abnormality of fetal acid-base balance	Diagnosis	ICD-10-CM
O690XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O690XX1	Labor and delivery complicated by prolapse of cord, fetus 1	Diagnosis	ICD-10-CM
O690XX2	Labor and delivery complicated by prolapse of cord, fetus 2	Diagnosis	ICD-10-CM
O690XX3	Labor and delivery complicated by prolapse of cord, fetus 3	Diagnosis	ICD-10-CM
O690XX4	Labor and delivery complicated by prolapse of cord, fetus 4	Diagnosis	ICD-10-CM
O690XX5	Labor and delivery complicated by prolapse of cord, fetus 5	Diagnosis	ICD-10-CM
O690XX9	Labor and delivery complicated by prolapse of cord, other fetus	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code Category	Code Type
O691XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O691XX1	Labor and delivery complicated by cord around neck, with compression, fetus 1	Diagnosis	ICD-10-CM
O691XX2	Labor and delivery complicated by cord around neck, with compression, fetus 2	Diagnosis	ICD-10-CM
O691XX3	Labor and delivery complicated by cord around neck, with compression, fetus 3	Diagnosis	ICD-10-CM
O691XX4	Labor and delivery complicated by cord around neck, with compression, fetus 4	Diagnosis	ICD-10-CM
O691XX5	Labor and delivery complicated by cord around neck, with compression, fetus 5	Diagnosis	ICD-10-CM
O691XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	Diagnosis	ICD-10-CM
O692XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O692XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O692XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O692XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O692XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O692XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O692XX9	Labor and delivery complicated by other cord entanglement, with compression, other	Diagnosis	ICD-10-CM
O693XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O693XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O693XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O693XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O693XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O693XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O693XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O694XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	Diagnosis	ICD-10-CM
O694XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O694XX2	Labor and delivery complicated by vasa previa, fetus 2	Diagnosis	ICD-10-CM
O694XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O694XX4	Labor and delivery complicated by vasa previa, fetus 4	Diagnosis	ICD-10-CM
O694XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O694XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O695XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O695XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O695XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O695XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	Diagnosis	ICD-10-CM
O695XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	Diagnosis	ICD-10-CM
O695XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM
O695XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O6981X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6981X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O6981X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O6981X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O6981X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O6981X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM



**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code Category	Code Type
O6981X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM
O6982X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6982X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O6982X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O6982X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O6982X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O6982X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O6982X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O6989X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	Diagnosis	ICD-10-CM
O6989X1	Labor and delivery complicated by other cord complications, fetus 1	Diagnosis	ICD-10-CM
O6989X2	Labor and delivery complicated by other cord complications, fetus 2	Diagnosis	ICD-10-CM
O6989X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O6989X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O6989X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O6989X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O699XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O699XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O699XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM
O699XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O699XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O699XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM
O699XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O700	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O701	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O7020	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O7021	Third degree perineal laceration during delivery, IIIa	Diagnosis	ICD-10-CM
O7022	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O7023	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O703	Fourth degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O704	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O709	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O740	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O741	Other pulmonary complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O742	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O743	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O744	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O745	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O746	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O747	Failed or difficult intubation for anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O748	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O749	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0750	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM
0751	Shock during or following labor and delivery	Diagnosis	ICD-10-CM
0755	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
07581	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
07582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section	Diagnosis	ICD-10-CM
07589	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
0759	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
076	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
0770	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
0778	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
0779	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
080	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
082	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
08802	Air embolism in childbirth	Diagnosis	ICD-10-CM
08812	Amniotic fluid embolism in childbirth	Diagnosis	ICD-10-CM
08822	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
08832	Pyemic and septic embolism in childbirth	Diagnosis	ICD-10-CM
08882	Other embolism in childbirth	Diagnosis	ICD-10-CM
09802	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
09812	Syphilis complicating childbirth	Diagnosis	ICD-10-CM
09822	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM
09832	Other infections with a predominantly sexual mode of transmission complicating	Diagnosis	ICD-10-CM
09842	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
09852	Other viral diseases complicating childbirth	Diagnosis	ICD-10-CM
09862	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
09872	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
09882	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
09892	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
09902	Anemia complicating childbirth	Diagnosis	ICD-10-CM
09912	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
099214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
099284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
099314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
099324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
099334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
099344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
099354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
09942	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
09952	Diseases of the respiratory system complicating childbirth	Diagnosis	ICD-10-CM
09962	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM
09972	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
099814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O99824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A22	Injury, poisoning and certain other consequences of external causes complicating	Diagnosis	ICD-10-CM
O9A32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P030	Newborn affected by breech delivery and extraction	Diagnosis	ICD-10-CM
P032	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P033	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P034	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P035	Newborn affected by precipitate delivery	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P0821	Post-term newborn	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
Z370	Single live birth	Diagnosis	ICD-10-CM
Z372	Twins, both liveborn	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

Code	Description	Code	
		Category	Code Type
Z373	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z3750	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z3751	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z3752	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z3753	Quintuplets, all liveborn	Diagnosis	ICD-10-CM
Z3754	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z3759	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triplets, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z379	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z3800	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3801	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z381	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z382	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3830	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3831	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z384	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z385	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3861	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3862	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3863	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3864	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3865	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3866	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3868	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3869	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z387	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z388	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
<b>Gestational Age</b>			
O481	Prolonged pregnancy	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
Z3A49	Greater than 42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
O480	Post-term pregnancy	Diagnosis	ICD-10-CM
P0821	Post-term newborn	Diagnosis	ICD-10-CM
Z3A42	42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A41	41 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A40	40 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A39	39 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A38	38 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A37	37 weeks gestation of pregnancy	Diagnosis	ICD-10-CM

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
Z3A36	36 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
Z3A35	35 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
Z3A34	34 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
Z3A33	33 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
Z3A32	32 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
Z3A31	31 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
Z3A30	30 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
Z3A29	29 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
Z3A28	28 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
Z3A27	27 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
Z3A26	26 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
Z3A25	25 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
Z3A24	24 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
Z3A23	23 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
Z3A22	22 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A21	21 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A20	20 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X3	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X0	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM



**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O6014X4	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
O6012X9	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM
<b>Fertility</b>			
58321	Artificial insemination; intra-cervical	Procedure	CPT-4
58322	Artificial insemination; intra-uterine	Procedure	CPT-4
58974	Embryo transfer, intrauterine	Procedure	CPT-4
58976	Gamete, zygote, or embryo intrafallopian transfer	Procedure	CPT-4
S4011	In vitro fertilization; including but not limited to identification and incubation of mature oocytes, fertilization with sperm, incubation of embryo(s), and subsequent visualization for determination of development	Procedure	HCPCS
S4013	Complete cycle, gamete intrafallopian transfer (GIFT), case rate	Procedure	HCPCS
S4014	Complete cycle, zygote intrafallopian transfer (ZIFT), case rate	Procedure	HCPCS
S4015	Complete in vitro fertilization cycle, not otherwise specified, case rate	Procedure	HCPCS
S4016	Frozen in vitro fertilization cycle, case rate	Procedure	HCPCS
S4035	Stimulated intrauterine insemination (IUI), case rate	Procedure	HCPCS
S4037	Cryopreserved embryo transfer, case rate	Procedure	HCPCS
<b>Prenatal Test</b>			
76813	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; single or first gestation	Procedure	CPT-4
76814	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; each additional gestation (List separately in addition to code for primary procedure)	Procedure	CPT-4
59015	Chorionic villus sampling, any method	Procedure	CPT-4
84163	Pregnancy-associated plasma protein-A (PAPP-A)	Procedure	CPT-4
87081	Culture, presumptive, pathogenic organisms, screening only;	Procedure	CPT-4
82677	Estriol	Procedure	CPT-4
86336	Inhibin A	Procedure	CPT-4
81420	Fetal chromosomal aneuploidy (eg, trisomy 21, monosomy X) genomic sequence analysis panel, circulating cell-free fetal DNA in maternal blood, must include analysis of chromosomes 13, 18, and 21	Procedure	CPT-4
76811	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; single or first gestation	Procedure	CPT-4

**Appendix P. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Encounter Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
76812	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; each additional gestation (List separately in addition to code for primary procedure)	Procedure	CPT-4
82106	Alpha-fetoprotein (AFP); amniotic fluid	Procedure	CPT-4
82950	Glucose; post glucose dose (includes glucose)	Procedure	CPT-4
82951	Glucose; tolerance test (GTT), 3 specimens (includes glucose)	Procedure	CPT-4
76805	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; single or first gestation	Procedure	CPT-4
76810	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; each additional gestation (List separately in addition to code for primary procedure)	Procedure	CPT-4

*AD = Admission Date*

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
<b>Immunosuppressive Medication</b>	
abatacept	Orencia
abatacept	Orencia ClickJect
abatacept/maltose	Orencia (with maltose)
abemaciclib	Verzenio
acalabrutinib	Calquence
adalimumab	Humira(CF) Pen Crohns-UC-HS
adalimumab	Humira(CF) Pen Pediatric UC
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-UC-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS
ado-trastuzumab emtansine	Kadcyla
afatinib dimaleate	Gilotrif
aldesleukin	Proleukin
alectinib HCl	Alecensa
alemtuzumab	Lemtrada
alemtuzumab	Campath
alpelisib	Piqray
amivantamab-vmjw	Rybrevant
anakinra	Kineret
anifrolumab-fnia	Saphnelo
anti-thymocyte globulin,rabbit	Thymoglobulin
apremilast	Otezla Starter
apremilast	Otezla
arsenic trioxide	arsenic trioxide
arsenic trioxide	Trisenox
asparaginase (Erwinia chrysanthemi)	Erwinaze
asparaginase (Erwinia chrysanthemi)	Erwinase
asparaginase Erwinia chrysanthemi (recombinant)-rywn	Rylaze
atezolizumab	Tecentriq
auranofin	Ridaura
avapritinib	Ayvakit
avelumab	Bavencio
axicabtagene ciloleuceI	Yescarta
axitinib	Inlyta
azacitidine	azacitidine
azacitidine	Vidaza
azacitidine	Onureg
azathioprine	azathioprine
azathioprine	Imuran
azathioprine	Azasan
azathioprine sodium	azathioprine sodium
baricitinib	Olumiant
basiliximab	Simulect
belatacept	Nulojix
belimumab	Benlysta
belinostat	Beleodaq
belumosudil mesylate	Rezurock
belzutifan	Welireg
bendamustine HCl	bendamustine



**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
bendamustine HCl	Belrapzo
bendamustine HCl	Bendeka
bendamustine HCl	Treanda
bevacizumab	Avastin
bevacizumab-awwb	Mvasi
bevacizumab-bvzr	Zirabev
bexarotene	Targretin
bexarotene	bexarotene
binimetinib	Mektovi
bleomycin sulfate	bleomycin
blinatumomab	Blincyto
bortezomib	bortezomib
bortezomib	Velcade
bosutinib	Bosulif
brentuximab vedotin	Adcetris
brigatinib	Alunbrig
busulfan	busulfan
busulfan	Busulfex
busulfan	Myleran
cabazitaxel	Jevtana
cabozantinib s-malate	Cometriq
cabozantinib s-malate	Cabometyx
calaspargase pegol-mknl	Asparlas
canakinumab/PF	Ilaris (PF)
capecitabine	Xeloda
capecitabine	capecitabine
carboplatin	carboplatin
carfilzomib	Kyprolis
carmustine	BiCNU
carmustine	carmustine
carmustine in polifeprosan 20	Gliadel Wafer
cemiplimab-rwlc	Libtayo
ceritinib	Zykadia
cetuximab	Erbitux
chlorambucil	Leukeran
cisplatin	cisplatin
cladribine	cladribine
clofarabine	Clolar
clofarabine	clofarabine
cobimetinib fumarate	Cotellic
copanlisib di-HCl	Aliqopa
crizotinib	Xalkori
cyclophosphamide	cyclophosphamide
cyclosporine	Sandimmune
cyclosporine	cyclosporine
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
cyclosporine, modified	cyclosporine modified
cytarabine	cytarabine
cytarabine/PF	cytarabine (PF)
dabrafenib mesylate	Tafinlar
dacarbazine	dacarbazine
dacomitinib	Vizimpro
dactinomycin	dactinomycin
dactinomycin	Cosmegen

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
daratumumab	Darzalex
dasatinib	Sprycel
daunorubicin HCl	daunorubicin
daunorubicin/cytarabine liposomal	Vyxeos
decitabine	decitabine
decitabine	Dacogen
dinutuximab	Unituxin
docetaxel	Taxotere
docetaxel	docetaxel
docetaxel	Docefrez
dostarlimab-gxly	Jemperli
doxorubicin HCl	doxorubicin
doxorubicin HCl	Adriamycin
doxorubicin HCl pegylated liposomal	Doxil
doxorubicin HCl pegylated liposomal	doxorubicin, peg-liposomal
doxorubicin HCl pegylated liposomal	Lipodox
doxorubicin HCl pegylated liposomal	Lipodox 50
durvalumab	Imfinzi
duvelisib	Copiktra
elotuzumab	Empliciti
emapalumab-lzsg	Gamifant
enasidenib mesylate	Idhifa
encorafenib	Braftovi
enfortumab vedotin-ejfv	Padcev
entrectinib	Rozlytrek
epirubicin HCl	Ellence
epirubicin HCl	epirubicin
erdafitinib	Balversa
eribulin mesylate	Halaven
erlotinib HCl	erlotinib
erlotinib HCl	Tarceva
etanercept	Enbrel
etanercept	Enbrel SureClick
etanercept	Enbrel Mini
etoposide	etoposide
etoposide	Toposar
etoposide phosphate	Etopophos
everolimus	everolimus (antineoplastic)
everolimus	Zortress
everolimus	Afinitor
everolimus	Afinitor Disperz
everolimus	everolimus (immunosuppressive)
fam-trastuzumab deruxtecan-nxki	Enhertu
fedratinib dihydrochloride	Inrebic
fingolimod HCl	Gilenya
floxuridine	floxuridine
fludarabine phosphate	fludarabine
fluorouracil	Adrucil
fluorouracil	fluorouracil
fostamatinib disodium	Tavalisse
gefitinib	Iressa
gemcitabine HCl	gemcitabine
gemcitabine HCl in 0.9 % sodium chloride	Infugem
gemtuzumab ozogamicin	Mylotarg
gilteritinib fumarate	Xospata

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
glasdegib maleate	Daurismo
glucarpidase	Voraxaze
golimumab	Simponi
golimumab	Simponi ARIA
hydroxyurea	Hydrea
hydroxyurea	hydroxyurea
ibrutinib	Imbruvica
idarubicin HCl	Idamycin PFS
idarubicin HCl	idarubicin
idecabtagene vicleucel	Abecma
idelalisib	Zydelig
ifosfamide	ifosfamide
ifosfamide	Ifex
ifosfamide/mesna	ifosfamide-mesna
imatinib mesylate	imatinib
imatinib mesylate	Gleevec
infigratinib phosphate	Truseltiq
inotuzumab ozogamicin	Besponsa
interferon alfa-2b, recomb.	Intron A
interferon alfa-n3	Alferon N
interferon gamma-1b, recomb.	Actimmune
ipilimumab	Yervoy
irinotecan HCl	Camptosar
irinotecan HCl	irinotecan
irinotecan liposomal	Onivyde
ivosidenib	Tibsovo
ixabepilone	Ixempra
ixazomib citrate	Ninlaro
kit for prep yttrium-90/ibritumomab tiuxetan/albumin human	Zevalin (Y-90)
lapatinib ditosylate	Tykerb
larotrectinib sulfate	Vitrakvi
leflunomide	Arava
leflunomide	leflunomide
lenalidomide	Revlimid
lenvatinib mesylate	Lenvima
lomustine	Gleostine
loncastuximab tesirine-lpyl	Zynlonta
lorlatinib	Lorbrena
lymphocyte immune globulin, antithymocyte (equine)	Atgam
margetuximab-cmkb	Margenza
melphalan	melphalan
melphalan	Alkeran
melphalan flufenamide hydrochloride	Pepaxto
melphalan HCl	melphalan HCl
melphalan HCl	Alkeran (as HCl)
melphalan HCl/betadex sulfobutyl ether sodium	Evomela
mercaptopurine	mercaptopurine
mercaptopurine	Purixan
methotrexate	Xatmep
methotrexate sodium	methotrexate sodium
methotrexate sodium	Trexall
methotrexate sodium/PF	methotrexate sodium (PF)
methotrexate/PF	Otrexup (PF)
methotrexate/PF	Rasuvo (PF)
midostaurin	Rydapt

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
mitomycin	mitomycin
mitomycin	Mutamycin
mitoxantrone HCl	mitoxantrone
mogamulizumab-kpkc	Poteligeo
moxetumomab pasudotox-tdfk	Lumoxiti
mycophenolate mofetil	CellCept
mycophenolate mofetil	mycophenolate mofetil
mycophenolate mofetil HCl	CellCept Intravenous
mycophenolate mofetil HCl	mycophenolate mofetil (HCl)
mycophenolate sodium	Myfortic
mycophenolate sodium	mycophenolate sodium
necitumumab	Portrazza
nelarabine	Arranon
neratinib maleate	Nerlynx
nilotinib HCl	Tasigna
niraparib tosylate	Zejula
nivolumab	Opdivo
obinutuzumab	Gazyva
ofatumumab	Arzerra
olaparib	Lynparza
olaratumab	Lartruvo
omacetaxine mepesuccinate	Synribo
osimertinib mesylate	Tagrisso
oxaliplatin	oxaliplatin
paclitaxel	paclitaxel
paclitaxel protein-bound	Abraxane
palbociclib	Ibrance
panitumumab	Vectibix
panobinostat lactate	Farydak
pazopanib HCl	Votrient
pegaspargase	Oncaspar
peginterferon alfa-2b	Sylatron
pembrolizumab	Keytruda
pemetrexed disodium	Alimta
pentostatin	Nipent
pertuzumab	Perjeta
pexidartinib hydrochloride	Turalio
polatuzumab vedotin-piiq	Polivy
pomalidomide	Pomalyst
ponatinib HCl	Iclusig
pralatrexate	Folotyn
pralsetinib	Gavreto
procarbazine HCl	Matulane
ramucirumab	Cyamza
regorafenib	Stivarga
ribociclib succinate	Kisqali
ribociclib succinate/letrozole	Kisqali Femara Co-Pack
rilonacept	Arcalyst
rituximab	Rituxan
rituximab-abbs	Truxima
rituximab-pvvr	Ruxience
rituximab/hyaluronidase, human recombinant	Rituxan Hycela
romidepsin	romidepsin
romidepsin	Istodax
rucaparib camsylate	Rubraca

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
ruxolitinib phosphate	Jakafi
sarilumab	Kevzara
selinexor	Xpovio
selumetinib sulfate/vitamin E TPGS	Koselugo
sipuleucel-T/lactated ringers solution	Provenge
sirolimus	Rapamune
sirolimus	sirolimus
sonidegib phosphate	Odomzo
sorafenib tosylate	Nexavar
sotorasib	Lumakras
streptozocin	Zanosar
sunitinib malate	Sutent
sunitinib malate	sunitinib malate
tacrolimus	tacrolimus
tacrolimus	Prograf
tacrolimus	Astagraf XL
tacrolimus	Envarsus XR
tagraxofusp-erzs	Elzonris
talazoparib tosylate	Talzenna
talimogene laherparepvec	Imlygic
tazemetostat hydrobromide	Tazverik
temozolomide	Temodar
temozolomide	temozolomide
temsirolimus	Torisel
temsirolimus	temsirolimus
teniposide	teniposide
thalidomide	Thalomid
thioguanine	Tabloid
thiotepa	thiotepa
thiotepa	Tepadina
tisagenlecleucel	Kymriah
tivozanib HCl	Fotivda
tocilizumab	Actemra
tocilizumab	Actemra ACTPen
tofacitinib citrate	Xeljanz XR
tofacitinib citrate	Xeljanz
topotecan HCl	Hycamtin
topotecan HCl	topotecan
trabectedin	Yondelis
trametinib dimethyl sulfoxide	Mekinist
trastuzumab	Herceptin
trastuzumab-anns	Kanjinti
trastuzumab-dkst	Ogivri
trastuzumab-dttb	Ontruzant
trastuzumab-hyaluronidase-oysk	Herceptin Hylecta
trastuzumab-qyyp	Trazimera
trifluridine/tipiracil HCl	Lonsurf
upadacitinib	Rinvoq
valrubicin	valrubicin
valrubicin	Valstar
vandetanib	Caprelsa
vemurafenib	Zelboraf
venetoclax	Venclexta
venetoclax	Venclexta Starting Pack
vinblastine sulfate	vinblastine

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
vincristine sulfate	Vincasar PFS
vincristine sulfate	vincristine
vincristine sulfate liposomal	Marqibo
vinorelbine tartrate	vinorelbine
vinorelbine tartrate	Navelbine
vismodegib	Erivedge
vorinostat	Zolinza
zanubrutinib	Brukinsa
ziv-aflibercept	Zaltrap
altretamine	Hexalen
bleomycin sulfate	Bleo 15K
gemcitabine HCl	Gemzar
mechlorethamine HCl	Mustargen
methotrexate	methotrexate (bulk)
Corticosteroids	
hydrocortisone sodium succinate	A-Hydrocort
dexamethasone sodium phosphate/PF	Active Injection Kit D (PF)
hydrocortisone	Alkindi Sprinkle
hydrocortisone acetate/lidocaine HCl/aloe vera	Ana-Lex Kit
hydrocortisone acetate/pramoxine HCl	Analpram-HC
hydrocortisone acetate/pramoxine HCl	Analpram-HC Singles
hydrocortisone acetate	Anucort-HC
hydrocortisone acetate	Anusol-HC
triamcinolone hexacetonide	Aristospan Intra-Articular
triamcinolone hexacetonide	Aristospan Intralesional
triamcinolone acetonide	Arze-Ject-A
betamethasone acetate/betamethasone sodium phosphate	Beta-1
betamethasone acetate and sodium phos in sterile water/PF	betameth ac,sod phos(PF)-water
betamethasone acetate/betamethasone sodium phosphate/water	betamethasone ace,sod phos-wtr
betamethasone acetate/betamethasone sodium phosphate	betamethasone acet,sod phos
betamethasone sodium phosph in sterile water for injection	betamethasone sod phosph-water
betamethasone acetate/betamethasone sodium phosphate	BSP-0820
budesonide	budesonide
bupivacaine HCl/dexamethasone sodium phos in sterile water	bupivacaine-dexameth in water
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
hydrocortisone	Colocort
hydrocortisone	Cortef
hydrocortisone	Cortenema
hydrocortisone acetate	Cortifoam
cortisone acetate	cortisone
dexamethasone	Decadron
prednisone	Deltasone
methylprednisolone acetate	Depo-Medrol
dexamethasone	Dexabliss
dexamethasone	dexamethasone
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone acetate and sodium phosphate in sterile water	dexamethasone ac, sod ph-water
dexamethasone acetate in sodium chloride, iso-osmotic	dexamethasone ace-NaCl,iso-osm
dexamethasone	Dexamethasone IntenSol
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate	dexamethasone sodium phosphate
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone sodium phosphate/PF	DoubleDex (PF)

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
dexamethasone	Dxevo
deflazacort	Emflaza
budesonide	Entocort EC
fludrocortisone acetate	fludrocortisone
dexamethasone	Hemady
hydrocortisone acetate	Hemmorex-HC
triamcinolone hexacetonide	Hexatrione
dexamethasone	HiDex
hydrocortisone	hydrocortisone
hydrocortisone acetate/pramoxine HCl	hydrocortisone-pramoxine
hydrocortisone acetate	hydrocortisone acetate
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Kenalog-80
mifepristone	Korlym
hydrocortisone acetate/lidocaine HCl/aloe vera	lidocaine-hydrocortisone-aloe
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
triamcinolone acetonide/lidocaine HCl	Lidocilone I
dexamethasone	LoCort
dexamethasone sodium phosphate/PF	MAS Care-Pak (PF)
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone acetate in sodium chloride,iso-osmotic/PF	methylpred ac(PF)-NaCl,iso-osm
methylprednisolone	Methylpred DP
methylprednisolone acetate/bupivacaine HCl in sterile water	methylprednisol ac-bupivac-wat
methylprednisolone	methylprednisolone
methylprednisolone acetate in sterile water for injection	methylprednisolone acet-water
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone sodium succinate	methylprednisolone sodium succ
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone sodium phosphate	Orapred ODT
budesonide	Ortikos
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80
triamcinolone acetonide	P-Care K40
triamcinolone acetonide	P-Care K80
prednisolone sodium phosphate	Pediapred
betamethasone acetate/betamethasone sodium phosphate	Pod-Care 100C
triamcinolone acetonide	Pod-Care 100K
prednisolone	prednisolone
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisone	prednisone
prednisone	Prednisone Intensol
triamcinolone acetonide	Pro-C-Dure 5
triamcinolone acetonide	Pro-C-Dure 6
hydrocortisone acetate/pramoxine HCl	Procort
hydrocortisone acetate	Proctocort
hydrocortisone acetate/pramoxine HCl	Proctofoam HC
prednisone	Rayos
betamethasone acetate/betamethasone sodium phosphate	ReadySharp Betamethasone
dexamethasone sodium phosphate	ReadySharp dexamethasone
methylprednisolone acetate	ReadySharp Methylprednisolone
triamcinolone acetonide	ReadySharp Triamcinolone
hydrocortisone sodium succinate	Solu-Cortef

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
hydrocortisone sodium succinate/PF	Solu-Cortef Act-O-Vial (PF)
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
dexamethasone	TaperDex
budesonide	Tarpeyo
triamcinolone acetonide/0.9% sodium chloride/PF	triamcinol ac (PF) in 0.9%NaCl
triamcinolone acetonide/bupivacaine/in 0.9% sodium chloride	triamcinol ace-bupiv-0.9% NaCl
triamcinolone acetonide in 0.9 % sodium chloride	triamcinolone acetone-0.9% NaCl
triamcinolone acetonide	triamcinolone acetonide
triamcinolone diacetate in 0.9 % sodium chloride/PF	triamcinolone dia(PF)-0.9%NaCl
triamcinolone diacetate in 0.9 % sodium chloride	triamcinolone diacet-0.9% NaCl
budesonide	Uceris
prednisolone sodium phosphate	Veripred 20
dexamethasone	ZCort
triamcinolone acetonide	Zilretta
dexamethasone	ZoDex
dexamethasone	ZonaCort
hydrocortisone acetate/pramoxine HCl/skin cleanser no.16	Zypram
<b>Antiviral Neuraminidase Inhibitor</b>	
zanamivir	Relenza Diskhaler
peramivir/PF	Rapivab (PF)
baloxavir marboxil	Xofluza
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu
<b>Baloxavir</b>	
baloxavir marboxil	Xofluza
<b>Osetamivir</b>	
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu
<b>Long-term aspirin- or salicylate-containing medications</b>	
aspirin	Adult Aspirin Regimen
aspirin	Adult Low Dose Aspirin
aspirin/dipyridamole	Aggrenox
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Extra Strength
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Original
chlorpheniramine mal/phenylephrine/d-methorphan Hb/aspirin	Alka-Seltzer Plus C/C(PE,DM)
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Alka-Seltzer Plus Cold (PE)
aspirin/caffeine	Anacin
aspirin/sodium bicarbonate/citric acid	Antacid and Pain Relief
bismuth subsalicylate	Anti-Diarrheal
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
aspirin	Aspir-81
aspirin	Aspir-Low
aspirin	Aspir-Trin
aspirin	aspirin
aspirin/caffeine/dihydrocodeine bitartrate	aspirin-caffeine-dihydrocodein
aspirin/dipyridamole	aspirin-dipyridamole
aspirin/omeprazole	aspirin-omeprazole
aspirin	Aspirin Childrens
aspirin/calcium carbonate/magnesium	aspirin,buffd-calcium carb-mag
aspirin/caffeine	Back and Body Pain Reliever
aspirin	Bayer Advanced
aspirin	Bayer Aspirin
aspirin/caffeine	Bayer Aspirin (with caffeine)
aspirin/caffeine	Bayer Back and Body



**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
aspirin	Bayer Chewable Aspirin
aspirin	Bayer Low Dose Aspirin
aspirin/calcium carbonate/magnesium/aluminum hydroxide	Bayer Plus Extra Strength
aspirin/diphenhydramine citrate	Bayer PM
aspirin/caffeine	BC Arthritis
aspirin/acetaminophen/caffeine	BC Max Strength
aspirin/caffeine	BC Pain Relief
bismuth subsalicylate	Bismatrol
bismuth subsalicylate	Bismuth
bismuth subsalicylate	Bismuth Maximum Strength
bismuth subsalicylate	bismuth subsalicylate
aspirin/calcium carbonate/magnesium	Bufferin
butalbital/aspirin/caffeine	butalbital-aspirin-caffeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine
carisoprodol/aspirin	carisoprodol-aspirin
carisoprodol/aspirin/codeine phosphate	carisoprodol-aspirin-codeine
aspirin	Children's Aspirin
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief Plus
bismuth subsalicylate	Diarrhea Relief (bismuth subs)
bismuth subsalicylate	Digestive Relief
bismuth subsalicylate	Diotame
bismuth subsalicylate	Diotame InstyDose
aspirin	Durlaza
aspirin	E.C. Prin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
aspirin/sodium bicarbonate/citric acid	Efferves Pain Relief Antacid
aspirin/sodium bicarbonate/citric acid	Effervescent Pain Relief
aspirin	Enteric Coated Aspirin
aspirin/acetaminophen/caffeine	Excedrin Extra Strength
aspirin/acetaminophen/caffeine	Excedrin Migraine
aspirin/acetaminophen/caffeine	Extra Pain Relief
aspirin	Extra Strength Bayer
aspirin/acetaminophen/caffeine	Extraprin
butalbital/aspirin/caffeine	Fiorinal
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
bismuth subsalicylate	Geri-Pectate
aspirin/acetaminophen	Goody's Back and Body Pain
aspirin/acetaminophen/caffeine	Goody's Extra Strength
aspirin/caffeine	Goody's Hangover
aspirin/acetaminophen/caffeine	Headache Relief (ASA-acet-caf)
bismuth subsalicylate/metronidazole/tetracycline HCl	Helidac
bismuth subsalicylate	K-Pec Antidiarrheal (bism sub)
bismuth subsalicylate	Kao-Tin (bismuth subsalicylat)
bismuth subsalicylate	Kaopectate (bismuth subsalicy)
bismuth subsalicylate	Kaopectate Ex Str (bismuth ss)
aspirin	Lo-Dose Aspirin
aspirin/sodium bicarbonate/citric acid	Medi-Seltzer
aspirin/acetaminophen/caffeine	Migraine Formula
aspirin/acetaminophen/caffeine	Migraine Relief
orphenadrine citrate/aspirin/caffeine	Norgesic
orphenadrine citrate/aspirin/caffeine	Norgesic Forte

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
orphenadrine citrate/aspirin/caffeine	orphenadrine-ASA-caffeine
orphenadrine citrate/aspirin/caffeine	Orphengesic Forte
oxycodone HCl/aspirin	oxycodone-aspirin
aspirin/acetaminophen/caffeine	Pain-Off
aspirin/acetaminophen/caffeine	Pain Relief (acetamin-asp-caf)
aspirin/caffeine	Pain Relief (aspirin-caffeine)
aspirin/acetaminophen/diphenhydramine citrate	Pain Relief PM (w-aspirin)
aspirin/salicylamide/acetaminophen/caffeine	Pain Relief(with salicylamide)
aspirin/acetaminophen/caffeine	Pain Reliever (acetam-aspirin)
aspirin/acetaminophen/caffeine	Pain Reliever Plus
aminosalicylic acid	Paser
bismuth subsalicylate	Pep-T-Med
bismuth subsalicylate	Peptic Relief
bismuth subsalicylate	Pepto-Bismol
bismuth subsalicylate	Pepto-Bismol Max St
bismuth subsalicylate	Pepto-Bismol To-Go
bismuth subsalicylate	Pepto-Bismol Ultra
bismuth subsalicylate	Pink Bismuth
bismuth subsalicylate	Pink Bismuth Maximum Strength
bismuth subsalicylate	Soothe (bismuth subsalicylate)
bismuth subsalicylate	Soothe Regular Strength
aspirin	St Joseph Aspirin
aspirin	St. Joseph Aspirin
aspirin/caffeine	Stanback
bismuth subsalicylate	Stomach Relief
bismuth subsalicylate	Stomach Relief Max Strength
bismuth subsalicylate	Stomach Relief Original
aspirin/caffeine/dihydrocodeine bitartrate	Synalgos-DC
aspirin/calcium carbonate/magnesium	Tri-Buffered Aspirin
aspirin/acetaminophen/caffeine	Vanquish
aspirin	Vazalore
aspirin/calcium carbonate	Women's Aspirin with Calcium
aspirin/omeprazole	Yosprala
<b>Pneumococcal Vaccination Days</b>	
pneumococcal 23-valent polysaccharide vaccine	Pneumovax-23
pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	Pevnar 13 (PF)
pneumococcal 20-valent conjugate vaccine (Diphtheria crm)/PF	Pevnar 20 (PF)
pneumococcal 15-valent conjugate vaccine (Diphtheria crm)/PF	Vaxneuvance (PF)
<b>Influenza Vaccination</b>	
flu vaccine quad 2017-2018(4 years and older)cell derived/PF	Flucelvax Quad 2017-2018 (PF)
flu vaccine quad 2018-2019(4 years and older)cell derived/PF	Flucelvax Quad 2018-2019 (PF)
flu vaccine quad 2018-2019(4 years and older)cell derived/PF	EZ Flu 2018-19(Flucelvax)(PF)
flu vaccine quad 2019-2020(4 years and older)cell derived/PF	Flucelvax Quad 2019-2020 (PF)
flu vaccine quad 2020-2021(4 years and older)cell derived/PF	Flucelvax Quad 2020-2021 (PF)
flu vaccine quad 2021-2022(6 month and older)cell derived/PF	Flucelvax Quad 2021-2022 (PF)
flu vaccine quad 2022-2023(6 month and older)cell derived/PF	Flucelvax Quad 2022-2023 (PF)
flu vaccine quadriv 2017-2018(4 years and older)cell derived	Flucelvax Quad 2017-2018
flu vaccine quadriv 2018-2019(4 years and older)cell derived	Flucelvax Quad 2018-2019
flu vaccine quadriv 2019-2020(4 years and older)cell derived	Flucelvax Quad 2019-2020
flu vaccine quadriv 2020-2021(4 years and older)cell derived	Flucelvax Quad 2020-2021
flu vaccine quadriv 2021-2022(6 month and older)cell derived	Flucelvax Quad 2021-2022
flu vaccine quadriv 2022-2023(6 month and older)cell derived	Flucelvax Quad 2022-2023
influenza vaccine quadrivalent 2020-21 (65 yr up)/MF59C.1/PF	Fluad Quad 2020-21(65y up)(PF)
influenza vaccine quadrivalent 2021-22 (65 yr up)/MF59C.1/PF	Fluad Quad 2021-22(65y up)(PF)
influenza vaccine quadrivalent 2022-23 (65 yr up)/MF59C.1/PF	Fluad Quad 2022-23(65y up)(PF)

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
influenza vaccine quadrivalent live 2017-2018 (2 yrs-49 yrs)	Flumist Quad 2017-2018
influenza vaccine quadrivalent live 2018-2019 (2 yrs-49 yrs)	Flumist Quad 2018-2019
influenza vaccine quadrivalent live 2019-2020 (2 yrs-49 yrs)	Flumist Quad 2019-2020
influenza vaccine quadrivalent live 2020-2021 (2 yrs-49 yrs)	Flumist Quad 2020-2021
influenza vaccine quadrivalent live 2021-2022 (2 yrs-49 yrs)	Flumist Quad 2021-2022
influenza vaccine quadrivalent live 2022-2023 (2 yrs-49 yrs)	Flumist Quad 2022-2023
influenza vaccine tvs 2017-18 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2017-2018 (65 yr up)(PF)
influenza vaccine tvs 2018-19 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2018-2019 (65 yr up)(PF)
influenza vaccine tvs 2019-20 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2019-2020 (65 yr up)(PF)
influenza vaccine tvs 2020-21 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2020-2021 (65 yr up)(PF)
influenza virus vacc quad 2020 south hem (6 mos and up)	Fluzone Quad Southern Hem 2020
influenza virus vacc quad 2020 south hem (6 mos and up)/PF	Fluzone Quad South Hem2020(PF)
influenza virus vacc quad 2021 south hem (6 months and up)	Fluzone Quad Southern Hem 2021
influenza virus vacc quad 2021 south hem (6 mos and up)/PF	Fluzone Quad South Hem2021(PF)
influenza virus vaccine quadrival 2017-18 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2017-18 (PF)
influenza virus vaccine quadrival 2018-19 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2018-19 (PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Flulaval Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Afluria Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Fluarix Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2019-20 (6 mos-35 mos)/PF	Afluria Qd 2019-20(6-35mo)(PF)
influenza virus vaccine quadrival 2019-20 (6 mos-35 mos)/PF	Fluzone Quad Pedi 2019-20 (PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Flulaval Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Fluzone Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Fluarix Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Flulaval Quad 2020-2021 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Fluzone Quad 2020-2021 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Fluarix Quad 2020-2021 (PF)
influenza virus vaccine quadrival 2020-21 (6 mos-35 mos)/PF	Afluria Qd 2020-21(6-35mo)(PF)
influenza virus vaccine quadrival 2021-2022(6 mos and up)/PF	Flulaval Quad 2021-2022 (PF)
influenza virus vaccine quadrival 2021-2022(6 mos and up)/PF	Fluzone Quad 2021-2022 (PF)
influenza virus vaccine quadrival 2021-2022(6 mos and up)/PF	Fluarix Quad 2021-2022 (PF)
influenza virus vaccine quadrival 2021-22 (6 mos-35 mos)/PF	Afluria Qd 2021-22(6-35mo)(PF)
influenza virus vaccine quadrival 2022-2023(6 mos and up)/PF	Flulaval Quad 2022-2023 (PF)
influenza virus vaccine quadrival 2022-2023(6 mos and up)/PF	Fluzone Quad 2022-2023 (PF)
influenza virus vaccine quadrival 2022-2023(6 mos and up)/PF	Fluarix Quad 2022-2023 (PF)
influenza virus vaccine quadrival split 2020-21(65 yr up)/PF	Fluzone HighDose Quad 20-21 PF
influenza virus vaccine quadrival split 2021-22(65 yr up)/PF	Fluzone HighDose Quad 21-22 PF
influenza virus vaccine quadrival split 2022-23(65 yr up)/PF	Fluzone HighDose Quad 22-23 PF
influenza virus vaccine quadrivalent 2017-18 (36 mos up)/PF	Fluzone Quad 2017-2018 (PF)
influenza virus vaccine quadrivalent 2017-18 (5 year and up)	Afluria Quad 2017-2018
influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	Flulaval Quad 2017-2018
influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	Fluzone Quad 2017-2018
influenza virus vaccine quadrivalent 2017-18(18yrs-64yrs)/PF	Fluzone Intraderm Quad 2017-18
influenza virus vaccine quadrivalent 2017-18(5 yr and up)/PF	Afluria Quad 2017-2018 (PF)
influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	Fluzone Quad 2018-2019 (PF)
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Flulaval Quad 2018-2019
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Afluria Quad 2018-2019
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Fluzone Quad 2018-2019
influenza virus vaccine quadrivalent 2019-20 (36 mos up)/PF	Afluria Qd 2019-20(3yr up)(PF)
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Flulaval Quad 2019-2020
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Afluria Quad 2019-20(6mo up)
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Fluzone Quad 2019-2020
influenza virus vaccine quadrivalent 2020-21 (36 mos up)/PF	Afluria Qd 2020-21(3yr up)(PF)
influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	Afluria Quad 2020-2021(6mo up)
influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	Fluzone Quad 2020-2021

**Appendix Q. Generic/Non-Proprietary and Brand/Proprietary Names of Medical Products Used to Define Covariates in this Request**

Generic Name	Brand Name
influenza virus vaccine quadrivalent 2021-22 (36 mos up)/PF	Afluria Qd 2021-22(3yr up)(PF)
influenza virus vaccine quadrivalent 2021-22 (6 mos and up)	Afluria Quad 2021-2022(6mo up)
influenza virus vaccine quadrivalent 2021-22 (6 mos and up)	Fluzone Quad 2021-2022
influenza virus vaccine quadrivalent 2022-23 (36 mos up)/PF	Afluria Qd 2022-23(3yr up)(PF)
influenza virus vaccine quadrivalent 2022-23 (6 mos and up)	Afluria Quad 2022-2023(6mo up)
influenza virus vaccine quadrivalent 2022-23 (6 mos and up)	Fluzone Quad 2022-2023
influenza virus vaccine qv 2017-18(18 yrs and older)rcmb/PF	Flublok Quad 2017-2018 (PF)
influenza virus vaccine qv 2018-19(18 yrs and older)rcmb/PF	Flublok Quad 2018-2019 (PF)
influenza virus vaccine qv 2019-20(18 yrs and older)rcmb/PF	Flublok Quad 2019-2020 (PF)
influenza virus vaccine qv 2020-21(18 yrs and older)rcmb/PF	Flublok Quad 2020-2021 (PF)
influenza virus vaccine qv 2021-22(18 yrs and older)rcmb/PF	Flublok Quad 2021-2022 (PF)
influenza virus vaccine qv 2022-23(18 yrs and older)rcmb/PF	Flublok Quad 2022-2023 (PF)
influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	Flulaval Quad 2017-2018 (PF)
influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	Fluarix Quad 2017-2018 (PF)
influenza virus vaccine trival 2017-2018 (4yr and older)/PF	Fluvirin 2017-2018 (PF)
influenza virus vaccine trival split 2017-2018(65 yr up)/PF	Fluzone High-Dose 2017-18 (PF)
influenza virus vaccine trival split 2018-2019(65 yr up)/PF	Fluzone High-Dose 2018-19 (PF)
influenza virus vaccine trival split 2019-2020(65 yr up)/PF	Fluzone High-Dose 2019-20 (PF)
influenza virus vaccine trivalent 2017-2018 (4 yr and older)	Fluvirin 2017-2018
influenza virus vaccine trivalent 2017-2018 (5 years up)/PF	Afluria 2017-2018 (PF)
influenza virus vaccine trivalent 2017-2018 (5 yr and older)	Afluria 2017-2018
influenza virus vaccine trivalent 2018-19 (6 mos and older)	Afluria 2018-2019
influenza virus vaccine tv 2017-18(18 yrs and older)rcmb/PF	Flublok 2017-2018 (PF)
influenza virus vaccine tvs 2018-2019(6 months and older)/PF	Afluria 2018-2019 (PF)
<b>SARS-CoV-2 Vaccination Days</b>	
COVID-19 vaccine, AZD-1222 (AstraZeneca)/PF	AstraZeneca COVID19 Vac(Unapp)
COVID-19 vaccine, mRNA, BNT162b2, LNP-S (Pfizer)/PF	Comirnaty (PF)
COVID-19 vac mRNA, tris(Pfizer)/PF	Comirnaty tris Vaccine(PF)
COVID-19 vac, Ad26.COVS.2 (Janssen)/PF	Janssen COVID-19 Vaccine (EUA)
COVID-19 vaccine, mRNA, cx-024414, LNP-S (Moderna)/PF	Moderna COVID-19 (6-11yr)(EUA)
COVID-19 vaccine, mRNA, cx-024414, LNP-S (Moderna)/PF	Moderna COVID-19 Vaccine (EUA)
COVID-19 vaccine, bivalent, mRNA/preservative free	Moderna COVID Biv Boost(Unap)
COVID-19 vaccine mRNA, Original, Omicron BA.4/5 (Moderna)/PF	Moderna COVID Bival(6m-5y)-PF
COVID-19 vaccine mRNA, Original, Omicron BA.4/5 (Moderna)/PF	Moderna COVID Bival(6y up)(PF)
COVID-19 vaccine, mRNA, LNP-S, pediatric (Moderna)/PF	Moderna COVID(6-11y) Vac(DNU)
COVID-19 vaccine, mRNA, LNP-S, pediatric (Moderna)/PF	Moderna COVID(6m-5y) Vacc(EUA)
COVID-19 vaccine, recombinant (Novavax)/adjuvant-Matrix/PF	Novavax COVID-19 Vacc, Adj(EUA)
COVID-19 vac mRNA, tris(Pfizer)/PF	Pfizer COVID-19 tris Vaccn(PF)
COVID-19 vaccine, mRNA, BNT162b2, LNP-S (Pfizer)/PF	Pfizer COVID-19 Vaccine (EUA)
COVID-19 vaccine mRNA, Original, Omicron BA.4/5 (Pfizer)/PF	Pfizer COVID Bival(12y up)(PF)
COVID-19 vaccine mRNA, Original, Omicron BA.4/5 (Pfizer)/PF	Pfizer COVID Bival(5-11yr)(PF)
COVID-19 vaccine mRNA, Original, Omicron BA.4/5 (Pfizer)/PF	Pfizer COVID Bival(6mo-4y)(PF)
COVID-19 vaccine, recombinant antigen (Sanofi)/PF	Sanofi COVID Booster-Ag Compnt
COVID-19 vaccine, mRNA, cx-024414, LNP-S (Moderna)/PF	Spikevax (PF)

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Acute Myocardial Infarction</b>			
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.0	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
<b>Alzheimer's Disease</b>			
G30.0	Alzheimer's disease with early onset	Diagnosis	ICD-10-CM
G30.1	Alzheimer's disease with late onset	Diagnosis	ICD-10-CM
G30.9	Alzheimer's disease, unspecified	Diagnosis	ICD-10-CM
G30.8	Other Alzheimer's disease	Diagnosis	ICD-10-CM
<b>Anemia</b>			
D59.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D56.0	Alpha thalassemia	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D55.2	Anemia due to disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.3	Anemia due to disorders of nucleotide metabolism	Diagnosis	ICD-10-CM
D55.9	Anemia due to enzyme disorder, unspecified	Diagnosis	ICD-10-CM
D55.0	Anemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency	Diagnosis	ICD-10-CM
D55.1	Anemia due to other disorders of glutathione metabolism	Diagnosis	ICD-10-CM
D55.29	Anemia due to other disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.21	Anemia due to pyruvate kinase deficiency	Diagnosis	ICD-10-CM
D63.1	Anemia in chronic kidney disease	Diagnosis	ICD-10-CM
D63.0	Anemia in neoplastic disease	Diagnosis	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	Diagnosis	ICD-10-CM
D64.9	Anemia, unspecified	Diagnosis	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM
D59.10	Autoimmune hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D56.1	Beta thalassemia	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D59.12	Cold autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	Diagnosis	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D56.2	Delta-beta thalassemia	Diagnosis	ICD-10-CM
D52.0	Dietary folate deficiency anemia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D52.1	Drug-induced folate deficiency anemia	Diagnosis	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D52.9	Folate deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.03	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.09	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	Diagnosis	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	Diagnosis	ICD-10-CM
D64.0	Hereditary sideroblastic anemia	Diagnosis	ICD-10-CM
D58.0	Hereditary spherocytosis	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	Diagnosis	ICD-10-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-10-CM
D50.9	Iron deficiency anemia, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D59.13	Mixed type autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
C94.6	Myelodysplastic disease, not elsewhere classified	Diagnosis	ICD-10-CM
D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality	Diagnosis	ICD-10-CM
D46.9	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-10-CM
D75.81	Myelofibrosis	Diagnosis	ICD-10-CM
D61.82	Myelophthisis	Diagnosis	ICD-10-CM
D53.9	Nutritional anemia, unspecified	Diagnosis	ICD-10-CM
D47.4	Osteomyelofibrosis	Diagnosis	ICD-10-CM
D59.8	Other acquired hemolytic anemias	Diagnosis	ICD-10-CM
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D55.8	Other anemias due to enzyme disorders	Diagnosis	ICD-10-CM
D59.19	Other autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D51.3	Other dietary vitamin B12 deficiency anemia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM
D52.8	Other folate deficiency anemias	Diagnosis	ICD-10-CM
D58.2	Other hemoglobinopathies	Diagnosis	ICD-10-CM
D50.8	Other iron deficiency anemias	Diagnosis	ICD-10-CM
D53.1	Other megaloblastic anemias, not elsewhere classified	Diagnosis	ICD-10-CM
D46.Z	Other myelodysplastic syndromes	Diagnosis	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.813	Other sickle-cell disorders with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.818	Other sickle-cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D64.3	Other sideroblastic anemias	Diagnosis	ICD-10-CM
D64.89	Other specified anemias	Diagnosis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	Diagnosis	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-10-CM
D53.8	Other specified nutritional anemias	Diagnosis	ICD-10-CM
D56.8	Other thalassemias	Diagnosis	ICD-10-CM
D51.8	Other vitamin B12 deficiency anemias	Diagnosis	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	Diagnosis	ICD-10-CM
D53.0	Protein deficiency anemia	Diagnosis	ICD-10-CM
D46.21	Refractory anemia with excess of blasts 1	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D46.20	Refractory anemia with excess of blasts, unspecified	Diagnosis	ICD-10-CM
D46.1	Refractory anemia with ring sideroblasts	Diagnosis	ICD-10-CM
D46.0	Refractory anemia without ring sideroblasts, so stated	Diagnosis	ICD-10-CM
D46.4	Refractory anemia, unspecified	Diagnosis	ICD-10-CM
D46.A	Refractory cytopenia with multilineage dysplasia	Diagnosis	ICD-10-CM
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts	Diagnosis	ICD-10-CM
D53.2	Scorbutic anemia	Diagnosis	ICD-10-CM
D64.1	Secondary sideroblastic anemia due to disease	Diagnosis	ICD-10-CM
D64.2	Secondary sideroblastic anemia due to drugs and toxins	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57.453	Sickle-cell thalassemia beta plus with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.458	Sickle-cell thalassemia beta plus with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D57.452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM
D57.44	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57.433	Sickle-cell thalassemia beta zero with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.438	Sickle-cell thalassemia beta zero with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D57.432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57.42	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome	Diagnosis	ICD-10-CM
D57.413	Sickle-cell thalassemia, unspecified, with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.418	Sickle-cell thalassemia, unspecified, with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia, unspecified, with splenic sequestration	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D50.1	Sideropenic dysphagia	Diagnosis	ICD-10-CM
D56.3	Thalassemia minor	Diagnosis	ICD-10-CM
D56.9	Thalassemia, unspecified	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D51.1	Vitamin B12 deficiency anemia due to selective vitamin B12 malabsorption with proteinuria	Diagnosis	ICD-10-CM
D51.9	Vitamin B12 deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D59.11	Warm autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
<b>Asthma</b>			
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
<b>Atrial Fibrillation or Flutter</b>			
I48.4	Atypical atrial flutter	Diagnosis	ICD-10-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.20	Chronic atrial fibrillation, unspecified	Diagnosis	ICD-10-CM
I48.11	Longstanding persistent atrial fibrillation	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I48.19	Other persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.21	Permanent atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.3	Typical atrial flutter	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
<b>Benign Prostatic Hyperplasia</b>			
N40.1	Benign prostatic hyperplasia with lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.0	Benign prostatic hyperplasia without lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.3	Nodular prostate with lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.2	Nodular prostate without lower urinary tract symptoms	Diagnosis	ICD-10-CM
<b>Breast Cancer</b>			
Z17.1	Estrogen receptor negative status [ER-]	Diagnosis	ICD-10-CM
Z17.0	Estrogen receptor positive status [ER+]	Diagnosis	ICD-10-CM
Z19.2	Hormone resistant malignancy status	Diagnosis	ICD-10-CM
Z19.1	Hormone sensitive malignancy status	Diagnosis	ICD-10-CM
D05.12	Intraductal carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.11	Intraductal carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.10	Intraductal carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.02	Lobular carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.01	Lobular carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.00	Lobular carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C50.811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
D05.82	Other specified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.81	Other specified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.80	Other specified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
Z86.000	Personal history of in-situ neoplasm of breast	Diagnosis	ICD-10-CM
Z85.3	Personal history of malignant neoplasm of breast	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D05.92	Unspecified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.91	Unspecified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.90	Unspecified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
<b>Colorectal Cancer</b>			
D01.0	Carcinoma in situ of colon	Diagnosis	ICD-10-CM
D01.1	Carcinoma in situ of rectosigmoid junction	Diagnosis	ICD-10-CM
D01.2	Carcinoma in situ of rectum	Diagnosis	ICD-10-CM
C49.A4	Gastrointestinal stromal tumor of large intestine	Diagnosis	ICD-10-CM
C49.A5	Gastrointestinal stromal tumor of rectum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
Z85.030	Personal history of malignant carcinoid tumor of large intestine	Diagnosis	ICD-10-CM
Z85.040	Personal history of malignant carcinoid tumor of rectum	Diagnosis	ICD-10-CM
Z85.038	Personal history of other malignant neoplasm of large intestine	Diagnosis	ICD-10-CM
Z85.048	Personal history of other malignant neoplasm of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-10-CM
<b>Endometrial Cancer</b>			
D07.0	Carcinoma in situ of endometrium	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
Z85.42	Personal history of malignant neoplasm of other parts of uterus	Diagnosis	ICD-10-CM
<b>Lung Cancer</b>			
D02.22	Carcinoma in situ of left bronchus and lung	Diagnosis	ICD-10-CM
D02.21	Carcinoma in situ of right bronchus and lung	Diagnosis	ICD-10-CM
D02.20	Carcinoma in situ of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C34.00	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Z85.110	Personal history of malignant carcinoid tumor of bronchus and lung	Diagnosis	ICD-10-CM
Z85.118	Personal history of other malignant neoplasm of bronchus and lung	Diagnosis	ICD-10-CM
<b>Prostate Cancer</b>			
D07.5	Carcinoma in situ of prostate	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
Z85.46	Personal history of malignant neoplasm of prostate	Diagnosis	ICD-10-CM
<b>Urologic Cancer</b>			
D09.19	Carcinoma in situ of other urinary organs	Diagnosis	ICD-10-CM
D09.10	Carcinoma in situ of unspecified urinary organ	Diagnosis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.2	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C66.2	Malignant neoplasm of left ureter	Diagnosis	ICD-10-CM
C68.8	Malignant neoplasm of overlapping sites of urinary organs	Diagnosis	ICD-10-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.1	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C66.1	Malignant neoplasm of right ureter	Diagnosis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.9	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM
C66.9	Malignant neoplasm of unspecified ureter	Diagnosis	ICD-10-CM
C68.9	Malignant neoplasm of urinary organ, unspecified	Diagnosis	ICD-10-CM
Z85.520	Personal history of malignant carcinoid tumor of kidney	Diagnosis	ICD-10-CM
Z85.59	Personal history of malignant neoplasm of other urinary tract organ	Diagnosis	ICD-10-CM
Z85.53	Personal history of malignant neoplasm of renal pelvis	Diagnosis	ICD-10-CM
Z85.54	Personal history of malignant neoplasm of ureter	Diagnosis	ICD-10-CM
Z85.528	Personal history of other malignant neoplasm of kidney	Diagnosis	ICD-10-CM
<b>Cataracts</b>			
H25.23	Age-related cataract, morgagnian type, bilateral	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H25.22	Age-related cataract, morgagnian type, left eye	Diagnosis	ICD-10-CM
H25.21	Age-related cataract, morgagnian type, right eye	Diagnosis	ICD-10-CM
H25.20	Age-related cataract, morgagnian type, unspecified eye	Diagnosis	ICD-10-CM
H25.13	Age-related nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H25.12	Age-related nuclear cataract, left eye	Diagnosis	ICD-10-CM
H25.11	Age-related nuclear cataract, right eye	Diagnosis	ICD-10-CM
H25.10	Age-related nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.033	Anterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.032	Anterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.031	Anterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.039	Anterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.043	Anterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.042	Anterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.041	Anterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.049	Anterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.223	Cataract secondary to ocular disorders (degenerative) (inflammatory), bilateral	Diagnosis	ICD-10-CM
H26.222	Cataract secondary to ocular disorders (degenerative) (inflammatory), left eye	Diagnosis	ICD-10-CM
H26.221	Cataract secondary to ocular disorders (degenerative) (inflammatory), right eye	Diagnosis	ICD-10-CM
H26.229	Cataract secondary to ocular disorders (degenerative) (inflammatory), unspecified eye	Diagnosis	ICD-10-CM
H26.213	Cataract with neovascularization, bilateral	Diagnosis	ICD-10-CM
H26.212	Cataract with neovascularization, left eye	Diagnosis	ICD-10-CM
H26.211	Cataract with neovascularization, right eye	Diagnosis	ICD-10-CM
H26.219	Cataract with neovascularization, unspecified eye	Diagnosis	ICD-10-CM
H25.813	Combined forms of age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.812	Combined forms of age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.811	Combined forms of age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.819	Combined forms of age-related cataract, unspecified eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H26.063	Combined forms of infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.062	Combined forms of infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.061	Combined forms of infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.069	Combined forms of infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM
H25.013	Cortical age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.012	Cortical age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.011	Cortical age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.019	Cortical age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
H26.33	Drug-induced cataract, bilateral	Diagnosis	ICD-10-CM
H26.32	Drug-induced cataract, left eye	Diagnosis	ICD-10-CM
H26.31	Drug-induced cataract, right eye	Diagnosis	ICD-10-CM
H26.30	Drug-induced cataract, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
H26.013	Infantile and juvenile cortical, lamellar, or zonular cataract, bilateral	Diagnosis	ICD-10-CM
H26.012	Infantile and juvenile cortical, lamellar, or zonular cataract, left eye	Diagnosis	ICD-10-CM
H26.011	Infantile and juvenile cortical, lamellar, or zonular cataract, right eye	Diagnosis	ICD-10-CM
H26.019	Infantile and juvenile cortical, lamellar, or zonular cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.033	Infantile and juvenile nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H26.032	Infantile and juvenile nuclear cataract, left eye	Diagnosis	ICD-10-CM
H26.031	Infantile and juvenile nuclear cataract, right eye	Diagnosis	ICD-10-CM
H26.039	Infantile and juvenile nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.113	Localized traumatic opacities, bilateral	Diagnosis	ICD-10-CM
H26.112	Localized traumatic opacities, left eye	Diagnosis	ICD-10-CM
H26.111	Localized traumatic opacities, right eye	Diagnosis	ICD-10-CM
H26.119	Localized traumatic opacities, unspecified eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H25.89	Other age-related cataract	Diagnosis	ICD-10-CM
H25.093	Other age-related incipient cataract, bilateral	Diagnosis	ICD-10-CM
H25.092	Other age-related incipient cataract, left eye	Diagnosis	ICD-10-CM
H25.091	Other age-related incipient cataract, right eye	Diagnosis	ICD-10-CM
H25.099	Other age-related incipient cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.09	Other infantile and juvenile cataract	Diagnosis	ICD-10-CM
H26.493	Other secondary cataract, bilateral	Diagnosis	ICD-10-CM
H26.492	Other secondary cataract, left eye	Diagnosis	ICD-10-CM
H26.491	Other secondary cataract, right eye	Diagnosis	ICD-10-CM
H26.499	Other secondary cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.8	Other specified cataract	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
H26.123	Partially resolved traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.122	Partially resolved traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.121	Partially resolved traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.129	Partially resolved traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.043	Posterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.042	Posterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.041	Posterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.049	Posterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.053	Posterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.052	Posterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.051	Posterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.059	Posterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.413	Soemmering's ring, bilateral	Diagnosis	ICD-10-CM
H26.412	Soemmering's ring, left eye	Diagnosis	ICD-10-CM
H26.411	Soemmering's ring, right eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H26.419	Soemmering's ring, unspecified eye	Diagnosis	ICD-10-CM
H26.133	Total traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.132	Total traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.131	Total traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.139	Total traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
H25.9	Unspecified age-related cataract	Diagnosis	ICD-10-CM
H26.9	Unspecified cataract	Diagnosis	ICD-10-CM
H26.20	Unspecified complicated cataract	Diagnosis	ICD-10-CM
H26.003	Unspecified infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.002	Unspecified infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.001	Unspecified infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.009	Unspecified infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.40	Unspecified secondary cataract	Diagnosis	ICD-10-CM
H26.103	Unspecified traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.102	Unspecified traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.101	Unspecified traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.109	Unspecified traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
<b>Chronic Kidney Disease</b>			
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N03.A	Chronic nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
M10.372	Gout due to renal impairment, left ankle and foot	Diagnosis	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	Diagnosis	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	Diagnosis	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	Diagnosis	ICD-10-CM
M10.362	Gout due to renal impairment, left knee	Diagnosis	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	Diagnosis	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	Diagnosis	ICD-10-CM
M10.39	Gout due to renal impairment, multiple sites	Diagnosis	ICD-10-CM
M10.371	Gout due to renal impairment, right ankle and foot	Diagnosis	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	Diagnosis	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	Diagnosis	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	Diagnosis	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	Diagnosis	ICD-10-CM
M10.311	Gout due to renal impairment, right shoulder	Diagnosis	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	Diagnosis	ICD-10-CM
M10.379	Gout due to renal impairment, unspecified ankle and foot	Diagnosis	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	Diagnosis	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	Diagnosis	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	Diagnosis	ICD-10-CM
M10.369	Gout due to renal impairment, unspecified knee	Diagnosis	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	Diagnosis	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	Diagnosis	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	Diagnosis	ICD-10-CM
M10.38	Gout due to renal impairment, vertebrae	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
N07.A	Hereditary nephropathy, not elsewhere classified with C3 glomerulonephritis	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
N06.A	Isolated proteinuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N04.A	Nephrotic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
N99.0	Postprocedural (acute) (chronic) kidney failure	Diagnosis	ICD-10-CM
N01.A	Rapidly progressive nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.A	Recurrent and persistent hematuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
M35.0A	Sjogren syndrome with glomerular disease	Diagnosis	ICD-10-CM
M35.04	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
A52.75	Syphilis of kidney and ureter	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
A18.11	Tuberculosis of kidney and ureter	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
N05.A	Unspecified nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Chronic Obstructive Pulmonary Disorder</b>			
J47.1	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J98.3	Compensatory emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM
J98.2	Interstitial emphysema	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
<b>Depression, Bipolar, or Other Mood Disorders</b>			
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F34.0	Cyclothymic disorder	Diagnosis	ICD-10-CM
F32.A	Depression, unspecified	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F06.31	Mood disorder due to known physiological condition with depressive features	Diagnosis	ICD-10-CM
F06.32	Mood disorder due to known physiological condition with major depressive-like episode	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F32.8	Other depressive episodes	Diagnosis	ICD-10-CM
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F32.89	Other specified depressive episodes	Diagnosis	ICD-10-CM
<b>Diabetes</b>			
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
<b>Glaucoma</b>			
H44.513	Absolute glaucoma, bilateral	Diagnosis	ICD-10-CM
H44.512	Absolute glaucoma, left eye	Diagnosis	ICD-10-CM
H44.511	Absolute glaucoma, right eye	Diagnosis	ICD-10-CM
H44.519	Absolute glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.213	Acute angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.212	Acute angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.211	Acute angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.219	Acute angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.833	Aqueous misdirection, bilateral	Diagnosis	ICD-10-CM
H40.832	Aqueous misdirection, left eye	Diagnosis	ICD-10-CM
H40.831	Aqueous misdirection, right eye	Diagnosis	ICD-10-CM
H40.839	Aqueous misdirection, unspecified eye	Diagnosis	ICD-10-CM
H40.1434	Capsular glaucoma with pseudoexfoliation of lens, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1431	Capsular glaucoma with pseudoexfoliation of lens, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1432	Capsular glaucoma with pseudoexfoliation of lens, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1433	Capsular glaucoma with pseudoexfoliation of lens, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1430	Capsular glaucoma with pseudoexfoliation of lens, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1424	Capsular glaucoma with pseudoexfoliation of lens, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1421	Capsular glaucoma with pseudoexfoliation of lens, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1422	Capsular glaucoma with pseudoexfoliation of lens, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1423	Capsular glaucoma with pseudoexfoliation of lens, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1420	Capsular glaucoma with pseudoexfoliation of lens, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1414	Capsular glaucoma with pseudoexfoliation of lens, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1411	Capsular glaucoma with pseudoexfoliation of lens, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1412	Capsular glaucoma with pseudoexfoliation of lens, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1413	Capsular glaucoma with pseudoexfoliation of lens, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1410	Capsular glaucoma with pseudoexfoliation of lens, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1494	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1491	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1492	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1493	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1490	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.2234	Chronic angle-closure glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.2231	Chronic angle-closure glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.2232	Chronic angle-closure glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.2233	Chronic angle-closure glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.2230	Chronic angle-closure glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.2224	Chronic angle-closure glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2221	Chronic angle-closure glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.2222	Chronic angle-closure glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.2223	Chronic angle-closure glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.2220	Chronic angle-closure glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2214	Chronic angle-closure glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2211	Chronic angle-closure glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.2212	Chronic angle-closure glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.2213	Chronic angle-closure glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.2210	Chronic angle-closure glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2294	Chronic angle-closure glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2291	Chronic angle-closure glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.2292	Chronic angle-closure glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.2293	Chronic angle-closure glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.2290	Chronic angle-closure glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	Diagnosis	ICD-10-CM
H42	Glaucoma in diseases classified elsewhere	Diagnosis	ICD-10-CM
H40.63X4	Glaucoma secondary to drugs, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.63X1	Glaucoma secondary to drugs, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.63X2	Glaucoma secondary to drugs, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.63X3	Glaucoma secondary to drugs, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.63X0	Glaucoma secondary to drugs, bilateral, stage unspecified	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.62X4	Glaucoma secondary to drugs, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.62X1	Glaucoma secondary to drugs, left eye, mild stage	Diagnosis	ICD-10-CM
H40.62X2	Glaucoma secondary to drugs, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.62X3	Glaucoma secondary to drugs, left eye, severe stage	Diagnosis	ICD-10-CM
H40.62X0	Glaucoma secondary to drugs, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.61X4	Glaucoma secondary to drugs, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.61X1	Glaucoma secondary to drugs, right eye, mild stage	Diagnosis	ICD-10-CM
H40.61X2	Glaucoma secondary to drugs, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.61X3	Glaucoma secondary to drugs, right eye, severe stage	Diagnosis	ICD-10-CM
H40.61X0	Glaucoma secondary to drugs, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.60X4	Glaucoma secondary to drugs, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.60X1	Glaucoma secondary to drugs, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.60X2	Glaucoma secondary to drugs, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.60X3	Glaucoma secondary to drugs, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.60X0	Glaucoma secondary to drugs, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.43X4	Glaucoma secondary to eye inflammation, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.43X1	Glaucoma secondary to eye inflammation, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.43X2	Glaucoma secondary to eye inflammation, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.43X3	Glaucoma secondary to eye inflammation, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.43X0	Glaucoma secondary to eye inflammation, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.42X4	Glaucoma secondary to eye inflammation, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.42X1	Glaucoma secondary to eye inflammation, left eye, mild stage	Diagnosis	ICD-10-CM
H40.42X2	Glaucoma secondary to eye inflammation, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.42X3	Glaucoma secondary to eye inflammation, left eye, severe stage	Diagnosis	ICD-10-CM
H40.42X0	Glaucoma secondary to eye inflammation, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.41X4	Glaucoma secondary to eye inflammation, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.41X1	Glaucoma secondary to eye inflammation, right eye, mild stage	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.41X2	Glaucoma secondary to eye inflammation, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.41X3	Glaucoma secondary to eye inflammation, right eye, severe stage	Diagnosis	ICD-10-CM
H40.41X0	Glaucoma secondary to eye inflammation, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.40X4	Glaucoma secondary to eye inflammation, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.40X1	Glaucoma secondary to eye inflammation, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.40X2	Glaucoma secondary to eye inflammation, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.40X3	Glaucoma secondary to eye inflammation, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.40X0	Glaucoma secondary to eye inflammation, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.33X4	Glaucoma secondary to eye trauma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.33X1	Glaucoma secondary to eye trauma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.33X2	Glaucoma secondary to eye trauma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.33X3	Glaucoma secondary to eye trauma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.33X0	Glaucoma secondary to eye trauma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.32X4	Glaucoma secondary to eye trauma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.32X1	Glaucoma secondary to eye trauma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.32X2	Glaucoma secondary to eye trauma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.32X3	Glaucoma secondary to eye trauma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.32X0	Glaucoma secondary to eye trauma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.31X4	Glaucoma secondary to eye trauma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.31X1	Glaucoma secondary to eye trauma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.31X2	Glaucoma secondary to eye trauma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.31X3	Glaucoma secondary to eye trauma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.31X0	Glaucoma secondary to eye trauma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.30X4	Glaucoma secondary to eye trauma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.30X1	Glaucoma secondary to eye trauma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.30X2	Glaucoma secondary to eye trauma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.30X3	Glaucoma secondary to eye trauma, unspecified eye, severe stage	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.30X0	Glaucoma secondary to eye trauma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.53X4	Glaucoma secondary to other eye disorders, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.53X1	Glaucoma secondary to other eye disorders, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.53X2	Glaucoma secondary to other eye disorders, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.53X3	Glaucoma secondary to other eye disorders, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.53X0	Glaucoma secondary to other eye disorders, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.52X4	Glaucoma secondary to other eye disorders, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.52X1	Glaucoma secondary to other eye disorders, left eye, mild stage	Diagnosis	ICD-10-CM
H40.52X2	Glaucoma secondary to other eye disorders, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.52X3	Glaucoma secondary to other eye disorders, left eye, severe stage	Diagnosis	ICD-10-CM
H40.52X0	Glaucoma secondary to other eye disorders, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.51X4	Glaucoma secondary to other eye disorders, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.51X1	Glaucoma secondary to other eye disorders, right eye, mild stage	Diagnosis	ICD-10-CM
H40.51X2	Glaucoma secondary to other eye disorders, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.51X3	Glaucoma secondary to other eye disorders, right eye, severe stage	Diagnosis	ICD-10-CM
H40.51X0	Glaucoma secondary to other eye disorders, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.50X4	Glaucoma secondary to other eye disorders, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.50X1	Glaucoma secondary to other eye disorders, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.50X2	Glaucoma secondary to other eye disorders, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.50X3	Glaucoma secondary to other eye disorders, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.50X0	Glaucoma secondary to other eye disorders, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.813	Glaucoma with increased episcleral venous pressure, bilateral	Diagnosis	ICD-10-CM
H40.812	Glaucoma with increased episcleral venous pressure, left eye	Diagnosis	ICD-10-CM
H40.811	Glaucoma with increased episcleral venous pressure, right eye	Diagnosis	ICD-10-CM
H40.819	Glaucoma with increased episcleral venous pressure, unspecified eye	Diagnosis	ICD-10-CM
H47.233	Glaucomatous optic atrophy, bilateral	Diagnosis	ICD-10-CM
H47.232	Glaucomatous optic atrophy, left eye	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H47.231	Glaucomatous optic atrophy, right eye	Diagnosis	ICD-10-CM
H47.239	Glaucomatous optic atrophy, unspecified eye	Diagnosis	ICD-10-CM
H40.823	Hypersecretion glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.822	Hypersecretion glaucoma, left eye	Diagnosis	ICD-10-CM
H40.821	Hypersecretion glaucoma, right eye	Diagnosis	ICD-10-CM
H40.829	Hypersecretion glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.233	Intermittent angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.232	Intermittent angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.231	Intermittent angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.239	Intermittent angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.1234	Low-tension glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1231	Low-tension glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1232	Low-tension glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1233	Low-tension glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1230	Low-tension glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1224	Low-tension glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1221	Low-tension glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1222	Low-tension glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1223	Low-tension glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1220	Low-tension glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1214	Low-tension glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1211	Low-tension glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1212	Low-tension glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1213	Low-tension glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1210	Low-tension glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1294	Low-tension glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1291	Low-tension glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.1292	Low-tension glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1293	Low-tension glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1290	Low-tension glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.053	Ocular hypertension, bilateral	Diagnosis	ICD-10-CM
H40.052	Ocular hypertension, left eye	Diagnosis	ICD-10-CM
H40.051	Ocular hypertension, right eye	Diagnosis	ICD-10-CM
H40.059	Ocular hypertension, unspecified eye	Diagnosis	ICD-10-CM
H40.023	Open angle with borderline findings, high risk, bilateral	Diagnosis	ICD-10-CM
H40.022	Open angle with borderline findings, high risk, left eye	Diagnosis	ICD-10-CM
H40.021	Open angle with borderline findings, high risk, right eye	Diagnosis	ICD-10-CM
H40.029	Open angle with borderline findings, high risk, unspecified eye	Diagnosis	ICD-10-CM
H40.013	Open angle with borderline findings, low risk, bilateral	Diagnosis	ICD-10-CM
H40.012	Open angle with borderline findings, low risk, left eye	Diagnosis	ICD-10-CM
H40.011	Open angle with borderline findings, low risk, right eye	Diagnosis	ICD-10-CM
H40.019	Open angle with borderline findings, low risk, unspecified eye	Diagnosis	ICD-10-CM
H40.89	Other specified glaucoma	Diagnosis	ICD-10-CM
H40.1334	Pigmentary glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1331	Pigmentary glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1332	Pigmentary glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1333	Pigmentary glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1330	Pigmentary glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1324	Pigmentary glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1321	Pigmentary glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1322	Pigmentary glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1323	Pigmentary glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1320	Pigmentary glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1314	Pigmentary glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.1311	Pigmentary glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1312	Pigmentary glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1313	Pigmentary glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1310	Pigmentary glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1394	Pigmentary glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1391	Pigmentary glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1392	Pigmentary glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1393	Pigmentary glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1390	Pigmentary glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1134	Primary open-angle glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1131	Primary open-angle glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1132	Primary open-angle glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1133	Primary open-angle glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1130	Primary open-angle glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.11X4	Primary open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.1124	Primary open-angle glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1121	Primary open-angle glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1122	Primary open-angle glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1123	Primary open-angle glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1120	Primary open-angle glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.11X1	Primary open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.11X2	Primary open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.1114	Primary open-angle glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1111	Primary open-angle glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1112	Primary open-angle glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1113	Primary open-angle glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1110	Primary open-angle glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.11X3	Primary open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.11X0	Primary open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.1194	Primary open-angle glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1191	Primary open-angle glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1192	Primary open-angle glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1193	Primary open-angle glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1190	Primary open-angle glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.243	Residual stage of angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.242	Residual stage of angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.241	Residual stage of angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.249	Residual stage of angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.153	Residual stage of open-angle glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.152	Residual stage of open-angle glaucoma, left eye	Diagnosis	ICD-10-CM
H40.151	Residual stage of open-angle glaucoma, right eye	Diagnosis	ICD-10-CM
H40.159	Residual stage of open-angle glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.043	Steroid responder, bilateral	Diagnosis	ICD-10-CM
H40.042	Steroid responder, left eye	Diagnosis	ICD-10-CM
H40.041	Steroid responder, right eye	Diagnosis	ICD-10-CM
H40.049	Steroid responder, unspecified eye	Diagnosis	ICD-10-CM
H40.9	Unspecified glaucoma	Diagnosis	ICD-10-CM
H40.10X4	Unspecified open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.10X1	Unspecified open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.10X2	Unspecified open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.10X3	Unspecified open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.10X0	Unspecified open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.20X4	Unspecified primary angle-closure glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.20X1	Unspecified primary angle-closure glaucoma, mild stage	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.20X2	Unspecified primary angle-closure glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.20X3	Unspecified primary angle-closure glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.20X0	Unspecified primary angle-closure glaucoma, stage unspecified	Diagnosis	ICD-10-CM
<b>Heart Failure and Non-Ischemic Heart Disease</b>			
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.31	Acute diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.33	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.813	Acute on chronic right heart failure	Diagnosis	ICD-10-CM
I50.23	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.811	Acute right heart failure	Diagnosis	ICD-10-CM
I50.21	Acute systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
I50.82	Biventricular heart failure	Diagnosis	ICD-10-CM
I42.7	Cardiomyopathy due to drug and external agent	Diagnosis	ICD-10-CM
I43	Cardiomyopathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.32	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.812	Chronic right heart failure	Diagnosis	ICD-10-CM
I50.22	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I42.0	Dilated cardiomyopathy	Diagnosis	ICD-10-CM
I50.84	End stage heart failure	Diagnosis	ICD-10-CM
I50.9	Heart failure, unspecified	Diagnosis	ICD-10-CM
I50.83	High output heart failure	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I50.1	Left ventricular failure, unspecified	Diagnosis	ICD-10-CM
P29.0	Neonatal cardiac failure	Diagnosis	ICD-10-CM
I42.8	Other cardiomyopathies	Diagnosis	ICD-10-CM
I50.89	Other heart failure	Diagnosis	ICD-10-CM
I42.5	Other restrictive cardiomyopathy	Diagnosis	ICD-10-CM
I09.81	Rheumatic heart failure	Diagnosis	ICD-10-CM
I50.814	Right heart failure due to left heart failure	Diagnosis	ICD-10-CM
I50.810	Right heart failure, unspecified	Diagnosis	ICD-10-CM
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.30	Unspecified diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.20	Unspecified systolic (congestive) heart failure	Diagnosis	ICD-10-CM
<b>Hip/Pelvic Fracture</b>			
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.059A	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
S72.132A	Displaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.132B	Displaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.132C	Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.131A	Displaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.131B	Displaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.131C	Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.133A	Displaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.133B	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.133C	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S72.062A	Displaced articular fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.062B	Displaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.062C	Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.061A	Displaced articular fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.061B	Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.061C	Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.063A	Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.063B	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.063C	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.462A	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.462B	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.461A	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.461B	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.463A	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.463B	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.312A	Displaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.312B	Displaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.612A	Displaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.612B	Displaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.311A	Displaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.311B	Displaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.611A	Displaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.611B	Displaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.313A	Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.313B	Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.613A	Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.613B	Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.482A	Displaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.482B	Displaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.481A	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.481B	Displaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.483A	Displaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.483B	Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.432A	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.432B	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.431A	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.431B	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.433A	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.433B	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.412A	Displaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.412B	Displaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.411A	Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.411B	Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.413A	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.413B	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.042A	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.042B	Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.042C	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.041A	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.041B	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.041C	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.043A	Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.043B	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S72.043C	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.022A	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.022B	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.022C	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.021A	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.021B	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.021C	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.023A	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.023B	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.023C	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.112A	Displaced fracture of greater trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.112B	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.112C	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.111A	Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.111B	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.111C	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.113A	Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.113B	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.113C	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.122A	Displaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.122B	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.122C	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S72.121A	Displaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.121B	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.121C	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.123A	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.123B	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.123C	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.472A	Displaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.472B	Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.471A	Displaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.471B	Displaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.473A	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.473B	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.442A	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.442B	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.441A	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.441B	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.443A	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.443B	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.422A	Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.422B	Displaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.421A	Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.421B	Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.423A	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.423B	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.142A	Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S72.142B	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.142C	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.141A	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.141B	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.141C	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.143A	Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.143B	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.143C	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.032A	Displaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.032B	Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.032C	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.031A	Displaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.031B	Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.031C	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.033A	Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.033B	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.033C	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.22XA	Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.22XB	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.22XC	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.21XA	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.21XB	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.21XC	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.23XA	Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.23XB	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.23XC	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.452A	Displaced transverse fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.452B	Displaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.451A	Displaced transverse fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.451B	Displaced transverse fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.453A	Displaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.453B	Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.89XA	Fracture of other parts of pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.89XB	Fracture of other parts of pelvis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.512A	Fracture of superior rim of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.512B	Fracture of superior rim of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.511A	Fracture of superior rim of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.511B	Fracture of superior rim of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.519A	Fracture of superior rim of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.519B	Fracture of superior rim of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.002A	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.002B	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.002C	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.001A	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.001B	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.001C	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.009A	Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.009B	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.009C	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.9XXA	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.9XXB	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.810A	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.810B	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.811A	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.811B	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.82XA	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.82XB	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.135A	Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.135B	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.135C	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.134A	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.134B	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.134C	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.136A	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.136B	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.136C	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.065A	Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.065B	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.065C	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.064A	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.064B	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.064C	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.066A	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.066B	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.066C	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.465A	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.465B	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.464A	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.464B	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.466A	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.466B	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.315A	Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.315B	Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.615A	Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.615B	Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.314A	Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.314B	Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.614A	Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.614B	Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.316A	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.316B	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.616A	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.616B	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.485A	Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.485B	Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.484A	Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.484B	Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.486A	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.486B	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.435A	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.435B	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.434A	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.434B	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.436A	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.436B	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.415A	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.415B	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.414A	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.414B	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.416A	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.416B	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.045A	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.045B	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.045C	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.044A	Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.044B	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.044C	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.046A	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.046B	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.046C	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.025A	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.025B	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.025C	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.024A	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.024B	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S72.024C	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.026A	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.026B	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.026C	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.115A	Nondisplaced fracture of greater trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.115B	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.115C	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.114A	Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.114B	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.114C	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.116A	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.116B	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.116C	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.125A	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.125B	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.125C	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.124A	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.124B	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.124C	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.126A	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.126B	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.126C	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.475A	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.475B	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.474A	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.474B	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.476A	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.476B	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.445A	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.445B	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.444A	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.444B	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.446A	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.446B	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.425A	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.425B	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.424A	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.424B	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.426A	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.426B	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.145A	Nondisplaced intertrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.145B	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.145C	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.144A	Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.144B	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.144C	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.146A	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S72.146B	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.146C	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.035A	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.035B	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.035C	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.034A	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.034B	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.034C	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.036A	Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.036B	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.036C	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.25XB	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.25XC	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.24XA	Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.24XB	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.24XC	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.26XA	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.26XB	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.26XC	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.455A	Nondisplaced transverse fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.455B	Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.454A	Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.454B	Nondisplaced transverse fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.456A	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.456B	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.092A	Other fracture of head and neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.092B	Other fracture of head and neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.092C	Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.091A	Other fracture of head and neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.091B	Other fracture of head and neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.091C	Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.099A	Other fracture of head and neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.099B	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.099C	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.392A	Other fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.392B	Other fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.391A	Other fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.391B	Other fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.399A	Other fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.399B	Other fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
M80.852A	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.851A	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.859A	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
S79.092A	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.091A	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.099A	Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.492A	Other specified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.492B	Other specified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.692A	Other specified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.692B	Other specified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.592A	Other specified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.592B	Other specified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.491A	Other specified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.491B	Other specified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.691A	Other specified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.691B	Other specified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.591A	Other specified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.591B	Other specified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.499A	Other specified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.499B	Other specified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.699A	Other specified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.699B	Other specified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.599A	Other specified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.599B	Other specified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
M84.559A	Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.552A	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.550A	Pathological fracture in neoplastic disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.551A	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.553A	Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.659A	Pathological fracture in other disease, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.652A	Pathological fracture in other disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.650A	Pathological fracture in other disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.651A	Pathological fracture in other disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.653A	Pathological fracture in other disease, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.459A	Pathological fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.452A	Pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.451A	Pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.453A	Pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M97.02XA	Periprosthetic fracture around internal prosthetic left hip joint, initial encounter	Diagnosis	ICD-10-CM
M97.01XA	Periprosthetic fracture around internal prosthetic right hip joint, initial encounter	Diagnosis	ICD-10-CM
S79.012A	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.011A	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.019A	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
M84.359A	Stress fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.352A	Stress fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.350A	Stress fracture, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.351A	Stress fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.353A	Stress fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
S72.052A	Unspecified fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.052B	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.052C	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.051A	Unspecified fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.051B	Unspecified fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.051C	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.059A	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.059B	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.059C	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S32.402A	Unspecified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.402B	Unspecified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.302A	Unspecified fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.302B	Unspecified fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.602A	Unspecified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.602B	Unspecified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.502A	Unspecified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.502B	Unspecified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.401A	Unspecified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.401B	Unspecified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.301A	Unspecified fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.301B	Unspecified fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.601A	Unspecified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.601B	Unspecified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.501A	Unspecified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.501B	Unspecified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.409A	Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.409B	Unspecified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.309A	Unspecified fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.309B	Unspecified fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.609A	Unspecified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.609B	Unspecified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.509A	Unspecified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.509B	Unspecified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.012A	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.012B	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.012C	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.011A	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.011B	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.011C	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.019A	Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.019B	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.019C	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S79.002A	Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.001A	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S79.009A	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.102A	Unspecified trochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.102B	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.102C	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.101A	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.101B	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.101C	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.109A	Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.109B	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.109C	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
<b>Hepatic Disorders</b>			
K70.0	Alcoholic fatty liver	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K70.2	Alcoholic fibrosis and sclerosis of liver	Diagnosis	ICD-10-CM
K70.30	Alcoholic cirrhosis of liver without ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K70.9	Alcoholic liver disease, unspecified	Diagnosis	ICD-10-CM
K71.0	Toxic liver disease with cholestasis	Diagnosis	ICD-10-CM
K71.11	Toxic liver disease with hepatic necrosis, with coma	Diagnosis	ICD-10-CM
K71.7	Toxic liver disease with fibrosis and cirrhosis of liver	Diagnosis	ICD-10-CM
K71.8	Toxic liver disease with other disorders of liver	Diagnosis	ICD-10-CM
K71.9	Toxic liver disease, unspecified	Diagnosis	ICD-10-CM
K72.00	Acute and subacute hepatic failure without coma	Diagnosis	ICD-10-CM
K72.01	Acute and subacute hepatic failure with coma	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K72.10	Chronic hepatic failure without coma	Diagnosis	ICD-10-CM
K72.11	Chronic hepatic failure with coma	Diagnosis	ICD-10-CM
K72.90	Hepatic failure, unspecified without coma	Diagnosis	ICD-10-CM
K72.91	Hepatic failure, unspecified with coma	Diagnosis	ICD-10-CM
K74.0	Hepatic fibrosis	Diagnosis	ICD-10-CM
K74.00	Hepatic fibrosis, unspecified	Diagnosis	ICD-10-CM
K74.01	Hepatic fibrosis, early fibrosis	Diagnosis	ICD-10-CM
K74.02	Hepatic fibrosis, advanced fibrosis	Diagnosis	ICD-10-CM
K74.1	Hepatic sclerosis	Diagnosis	ICD-10-CM
K74.2	Hepatic fibrosis with hepatic sclerosis	Diagnosis	ICD-10-CM
K74.3	Primary biliary cirrhosis	Diagnosis	ICD-10-CM
K74.4	Secondary biliary cirrhosis	Diagnosis	ICD-10-CM
K74.5	Biliary cirrhosis, unspecified	Diagnosis	ICD-10-CM
K74.60	Unspecified cirrhosis of liver	Diagnosis	ICD-10-CM
K74.69	Other cirrhosis of liver	Diagnosis	ICD-10-CM
K75.0	Abscess of liver	Diagnosis	ICD-10-CM
K75.1	Phlebitis of portal vein	Diagnosis	ICD-10-CM
K75.81	Nonalcoholic steatohepatitis (NASH)	Diagnosis	ICD-10-CM
K75.89	Other specified inflammatory liver diseases	Diagnosis	ICD-10-CM
K75.9	Inflammatory liver disease, unspecified	Diagnosis	ICD-10-CM
K76.0	Fatty (change of) liver, not elsewhere classified	Diagnosis	ICD-10-CM
K76.1	Chronic passive congestion of liver	Diagnosis	ICD-10-CM
K76.2	Central hemorrhagic necrosis of liver	Diagnosis	ICD-10-CM
K76.3	Infarction of liver	Diagnosis	ICD-10-CM
K76.5	Hepatic veno-occlusive disease	Diagnosis	ICD-10-CM
K76.6	Portal hypertension	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K76.81	Hepatopulmonary syndrome	Diagnosis	ICD-10-CM
K76.82	Hepatic encephalopathy	Diagnosis	ICD-10-CM
K76.89	Other specified diseases of liver	Diagnosis	ICD-10-CM
K76.9	Liver disease, unspecified	Diagnosis	ICD-10-CM
K77	Liver disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
K80.30	Calculus of bile duct with cholangitis, unspecified, without obstruction	Diagnosis	ICD-10-CM
K80.31	Calculus of bile duct with cholangitis, unspecified, with obstruction	Diagnosis	ICD-10-CM
K80.32	Calculus of bile duct with acute cholangitis without obstruction	Diagnosis	ICD-10-CM
K80.33	Calculus of bile duct with acute cholangitis with obstruction	Diagnosis	ICD-10-CM
K80.34	Calculus of bile duct with chronic cholangitis without obstruction	Diagnosis	ICD-10-CM
K80.35	Calculus of bile duct with chronic cholangitis with obstruction	Diagnosis	ICD-10-CM
K80.36	Calculus of bile duct with acute and chronic cholangitis without obstruction	Diagnosis	ICD-10-CM
K80.37	Calculus of bile duct with acute and chronic cholangitis with obstruction	Diagnosis	ICD-10-CM
K83.0	Cholangitis	Diagnosis	ICD-10-CM
R16.0	Hepatomegaly, not elsewhere classified	Diagnosis	ICD-10-CM
R16.2	Hepatomegaly with splenomegaly, not elsewhere classified	Diagnosis	ICD-10-CM
Z48.23	Encounter for aftercare following liver transplant	Diagnosis	ICD-10-CM
Z94.4	Liver transplant status	Diagnosis	ICD-10-CM
B15.0	Hepatitis A with hepatic coma	Diagnosis	ICD-10-CM
B15.9	Hepatitis A without hepatic coma	Diagnosis	ICD-10-CM
B16.0	Acute hepatitis B with delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B16.1	Acute hepatitis B with delta-agent without hepatic coma	Diagnosis	ICD-10-CM
B16.2	Acute hepatitis B without delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B16.9	Acute hepatitis B without delta-agent and without hepatic coma	Diagnosis	ICD-10-CM
B17.0	Acute delta-(super) infection of hepatitis B carrier	Diagnosis	ICD-10-CM
B17.10	Acute hepatitis C without hepatic coma	Diagnosis	ICD-10-CM
B17.11	Acute hepatitis C with hepatic coma	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
B17.2	Acute hepatitis E	Diagnosis	ICD-10-CM
B17.8	Other specified acute viral hepatitis	Diagnosis	ICD-10-CM
B17.9	Acute viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B18.0	Chronic viral hepatitis B with delta-agent	Diagnosis	ICD-10-CM
B18.1	Chronic viral hepatitis B without delta-agent	Diagnosis	ICD-10-CM
B18.2	Chronic viral hepatitis C	Diagnosis	ICD-10-CM
B18.8	Other chronic viral hepatitis	Diagnosis	ICD-10-CM
B18.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B19.0	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-10-CM
B19.10	Unspecified viral hepatitis B without hepatic coma	Diagnosis	ICD-10-CM
B19.11	Unspecified viral hepatitis B with hepatic coma	Diagnosis	ICD-10-CM
B19.20	Unspecified viral hepatitis C without hepatic coma	Diagnosis	ICD-10-CM
B19.21	Unspecified viral hepatitis C with hepatic coma	Diagnosis	ICD-10-CM
B19.9	Unspecified viral hepatitis without hepatic coma	Diagnosis	ICD-10-CM
Z22.50	Carrier of unspecified viral hepatitis	Diagnosis	ICD-10-CM
Z22.51	Carrier of viral hepatitis B	Diagnosis	ICD-10-CM
Z22.52	Carrier of viral hepatitis C	Diagnosis	ICD-10-CM
Z22.59	Carrier of other viral hepatitis	Diagnosis	ICD-10-CM
06L20ZZ	Occlusion of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06L23ZZ	Occlusion of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L24ZZ	Occlusion of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L30ZZ	Occlusion of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06L33ZZ	Occlusion of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L34ZZ	Occlusion of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9S30Z	Drainage of Greater Omentum with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D9S3ZZ	Drainage of Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0D9S40Z	Drainage of Greater Omentum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D9S4ZZ	Drainage of Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9T30Z	Drainage of Lesser Omentum with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D9T3ZZ	Drainage of Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0D9T40Z	Drainage of Lesser Omentum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9T4ZZ	Drainage of Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9V30Z	Drainage of Mesentery with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D9V3ZZ	Drainage of Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0D9V40Z	Drainage of Mesentery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9V4ZZ	Drainage of Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9W30Z	Drainage of Peritoneum with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D9W3ZZ	Drainage of Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0D9W40Z	Drainage of Peritoneum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9W4ZZ	Drainage of Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL57DZ	Occlusion of Esophagus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL58DZ	Occlusion of Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0W9F30Z	Drainage of Abdominal Wall with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0W9F3ZZ	Drainage of Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0W9F40Z	Drainage of Abdominal Wall with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9F4ZZ	Drainage of Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9G30Z	Drainage of Peritoneal Cavity with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0W9G3ZZ	Drainage of Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0W9G40Z	Drainage of Peritoneal Cavity with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9G4ZZ	Drainage of Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9J30Z	Drainage of Pelvic Cavity with Drainage Device, Percutaneous Approach	Procedure	ICD-10-PCS
0W9J3ZZ	Drainage of Pelvic Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
<b>Hyperlipidemia</b>			
E78.41	Elevated Lipoprotein(a)	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E78.01	Familial hypercholesterolemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	Diagnosis	ICD-10-CM
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.49	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.0	Pure hypercholesterolemia	Diagnosis	ICD-10-CM
E78.00	Pure hypercholesterolemia, unspecified	Diagnosis	ICD-10-CM
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM
<b>Hypertension</b>			
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
<b>Hypothyroidism</b>			
E03.4	Atrophy of thyroid (acquired)	Diagnosis	ICD-10-CM
E03.0	Congenital hypothyroidism with diffuse goiter	Diagnosis	ICD-10-CM
E03.1	Congenital hypothyroidism without goiter	Diagnosis	ICD-10-CM
E00.2	Congenital iodine-deficiency syndrome, mixed type	Diagnosis	ICD-10-CM
E00.1	Congenital iodine-deficiency syndrome, myxedematous type	Diagnosis	ICD-10-CM
E00.0	Congenital iodine-deficiency syndrome, neurological type	Diagnosis	ICD-10-CM
E00.9	Congenital iodine-deficiency syndrome, unspecified	Diagnosis	ICD-10-CM
E03.2	Hypothyroidism due to medicaments and other exogenous substances	Diagnosis	ICD-10-CM
E03.9	Hypothyroidism, unspecified	Diagnosis	ICD-10-CM
E01.8	Other iodine-deficiency related thyroid disorders and allied conditions	Diagnosis	ICD-10-CM
E03.8	Other specified hypothyroidism	Diagnosis	ICD-10-CM
E03.3	Postinfectious hypothyroidism	Diagnosis	ICD-10-CM
E89.0	Postprocedural hypothyroidism	Diagnosis	ICD-10-CM
E02	Subclinical iodine-deficiency hypothyroidism	Diagnosis	ICD-10-CM
<b>Ischemic Heart Disease</b>			
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I20.0	Unstable angina	Diagnosis	ICD-10-CM
<b>Non-Alzheimer's Dementia</b>			
R41.81	Age-related cognitive decline	Diagnosis	ICD-10-CM
G31.2	Degeneration of nervous system due to alcohol	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F05	Delirium due to known physiological condition	Diagnosis	ICD-10-CM
F02.81	Dementia in other diseases classified elsewhere, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F02.80	Dementia in other diseases classified elsewhere, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
G31.83	Neurocognitive disorder with Lewy bodies	Diagnosis	ICD-10-CM
G94	Other disorders of brain in diseases classified elsewhere	Diagnosis	ICD-10-CM
G31.09	Other frontotemporal neurocognitive disorder	Diagnosis	ICD-10-CM
G31.01	Pick's disease	Diagnosis	ICD-10-CM
G31.1	Senile degeneration of brain, not elsewhere classified	Diagnosis	ICD-10-CM
G13.8	Systemic atrophy primarily affecting central nervous system in other diseases classified elsewhere	Diagnosis	ICD-10-CM
F03.91	Unspecified dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F03.90	Unspecified dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.51	Vascular dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F01.50	Vascular dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
<b>Osteoporosis</b>			
M80.00XA	Age-related osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.011A	Age-related osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.012A	Age-related osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.019A	Age-related osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.021A	Age-related osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.022A	Age-related osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.029A	Age-related osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.031A	Age-related osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.032A	Age-related osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.039A	Age-related osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M80.041A	Age-related osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.042A	Age-related osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.049A	Age-related osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.059A	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.061A	Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.062A	Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.069A	Age-related osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.071A	Age-related osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.072A	Age-related osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.079A	Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.08XA	Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0AXA	Age-related osteoporosis with current pathological fracture, other site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.80XA	Other osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.811A	Other osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.812A	Other osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.819A	Other osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.821A	Other osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.822A	Other osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.829A	Other osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.831A	Other osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.832A	Other osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.839A	Other osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.841A	Other osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.842A	Other osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M80.849A	Other osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.851A	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.852A	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.859A	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.861A	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.862A	Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.869A	Other osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.871A	Other osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.872A	Other osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.879A	Other osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.88XA	Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8AXA	Other osteoporosis with current pathological fracture, other site, initial encounter for fracture	Diagnosis	ICD-10-CM
M81.0	Age-related osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM
M81.6	Localized osteoporosis [Lequesne]	Diagnosis	ICD-10-CM
M81.8	Other osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM
<b>Parkinson's Disease and Secondary Parkinsonism</b>			
G20	Parkinson's disease	Diagnosis	ICD-10-CM
G21.11	Neuroleptic induced parkinsonism	Diagnosis	ICD-10-CM
G21.19	Other drug induced secondary parkinsonism	Diagnosis	ICD-10-CM
G21.3	Postencephalitic parkinsonism	Diagnosis	ICD-10-CM
G21.4	Vascular parkinsonism	Diagnosis	ICD-10-CM
G21.8	Other secondary parkinsonism	Diagnosis	ICD-10-CM
G21.9	Secondary parkinsonism, unspecified	Diagnosis	ICD-10-CM
G31.83	Neurocognitive disorder with Lewy bodies	Diagnosis	ICD-10-CM
<b>Rheumatoid Arthritis/Osteoarthritis</b>			
L40.50	Arthropathic psoriasis, unspecified	Diagnosis	ICD-10-CM
L40.51	Distal interphalangeal psoriatic arthropathy	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
L40.54	Psoriatic juvenile arthropathy	Diagnosis	ICD-10-CM
L40.59	Other psoriatic arthropathy	Diagnosis	ICD-10-CM
M05.00	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M05.021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM
M05.022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M05.031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05.032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M05.061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05.062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M05.10	Rheumatoid lung disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.119	Rheumatoid lung disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.129	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.7A	Rheumatoid arthritis with rheumatoid factor of other specified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.8A	Other rheumatoid arthritis with rheumatoid factor of other specified site	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.0A	Rheumatoid arthritis without rheumatoid factor, other specified site	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.8A	Other specified rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.0A	Unspecified juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.2A	Juvenile rheumatoid arthritis with systemic onset, other specified site	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.4A	Pauciarticular juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M08.9A	Juvenile arthritis, unspecified, other specified site	Diagnosis	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	Diagnosis	ICD-10-CM
M15.1	Heberden's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.3	Secondary multiple arthritis	Diagnosis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	Diagnosis	ICD-10-CM
M15.8	Other polyosteoarthritis	Diagnosis	ICD-10-CM
M15.9	Polyosteoarthritis, unspecified	Diagnosis	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.12	Unilateral primary osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.2	Bilateral osteoarthritis resulting from hip dysplasia	Diagnosis	ICD-10-CM
M16.30	Unilateral osteoarthritis resulting from hip dysplasia, unspecified hip	Diagnosis	ICD-10-CM
M16.31	Unilateral osteoarthritis resulting from hip dysplasia, right hip	Diagnosis	ICD-10-CM
M16.32	Unilateral osteoarthritis resulting from hip dysplasia, left hip	Diagnosis	ICD-10-CM
M16.4	Bilateral post-traumatic osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.50	Unilateral post-traumatic osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.51	Unilateral post-traumatic osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.52	Unilateral post-traumatic osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.6	Other bilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.7	Other unilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M16.9	Osteoarthritis of hip, unspecified	Diagnosis	ICD-10-CM
M17.0	Bilateral primary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.10	Unilateral primary osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.11	Unilateral primary osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.12	Unilateral primary osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.2	Bilateral post-traumatic osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	Diagnosis	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.50	Other unilateral secondary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.51	Other unilateral secondary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.52	Other unilateral secondary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.9	Osteoarthritis of first carpometacarpal joint, unspecified	Diagnosis	ICD-10-CM
M19.011	Primary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.012	Primary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M19.019	Primary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.021	Primary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.022	Primary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.029	Primary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.031	Primary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.032	Primary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.039	Primary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.041	Primary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.042	Primary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.049	Primary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.071	Primary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.072	Primary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.079	Primary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.09	Primary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.129	Post-traumatic osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.131	Post-traumatic osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.132	Post-traumatic osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.139	Post-traumatic osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.141	Post-traumatic osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.142	Post-traumatic osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.149	Post-traumatic osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.171	Post-traumatic osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M19.172	Post-traumatic osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.179	Post-traumatic osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.19	Post-traumatic osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.211	Secondary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.212	Secondary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.219	Secondary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.221	Secondary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.222	Secondary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.229	Secondary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.231	Secondary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.232	Secondary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.239	Secondary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.241	Secondary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.242	Secondary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.249	Secondary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.271	Secondary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.272	Secondary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.279	Secondary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.29	Secondary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.90	Unspecified osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.91	Primary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.92	Post-traumatic osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.93	Secondary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A0	Non-radiographic axial spondyloarthritis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A1	Non-radiographic axial spondyloarthritis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.A2	Non-radiographic axial spondyloarthritis of cervical region	Diagnosis	ICD-10-CM
M45.A3	Non-radiographic axial spondyloarthritis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.A4	Non-radiographic axial spondyloarthritis of thoracic region	Diagnosis	ICD-10-CM
M45.A5	Non-radiographic axial spondyloarthritis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.A6	Non-radiographic axial spondyloarthritis of lumbar region	Diagnosis	ICD-10-CM
M45.A7	Non-radiographic axial spondyloarthritis of lumbosacral region	Diagnosis	ICD-10-CM
M45.A8	Non-radiographic axial spondyloarthritis of sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.AB	Non-radiographic axial spondyloarthritis of multiple sites in spine	Diagnosis	ICD-10-CM
M46.80	Other specified inflammatory spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.81	Other specified inflammatory spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.82	Other specified inflammatory spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.83	Other specified inflammatory spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.84	Other specified inflammatory spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.85	Other specified inflammatory spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.86	Other specified inflammatory spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.87	Other specified inflammatory spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.88	Other specified inflammatory spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.89	Other specified inflammatory spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.90	Unspecified inflammatory spondylopathy, site unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M46.91	Unspecified inflammatory spondylopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.92	Unspecified inflammatory spondylopathy, cervical region	Diagnosis	ICD-10-CM
M46.93	Unspecified inflammatory spondylopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.94	Unspecified inflammatory spondylopathy, thoracic region	Diagnosis	ICD-10-CM
M46.95	Unspecified inflammatory spondylopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.96	Unspecified inflammatory spondylopathy, lumbar region	Diagnosis	ICD-10-CM
M46.97	Unspecified inflammatory spondylopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.98	Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.99	Unspecified inflammatory spondylopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.012	Anterior spinal artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.013	Anterior spinal artery compression syndromes, cervicothoracic region	Diagnosis	ICD-10-CM
M47.014	Anterior spinal artery compression syndromes, thoracic region	Diagnosis	ICD-10-CM
M47.015	Anterior spinal artery compression syndromes, thoracolumbar region	Diagnosis	ICD-10-CM
M47.016	Anterior spinal artery compression syndromes, lumbar region	Diagnosis	ICD-10-CM
M47.019	Anterior spinal artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.022	Vertebral artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.029	Vertebral artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.10	Other spondylosis with myelopathy, site unspecified	Diagnosis	ICD-10-CM
M47.11	Other spondylosis with myelopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.12	Other spondylosis with myelopathy, cervical region	Diagnosis	ICD-10-CM
M47.13	Other spondylosis with myelopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.14	Other spondylosis with myelopathy, thoracic region	Diagnosis	ICD-10-CM
M47.15	Other spondylosis with myelopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.16	Other spondylosis with myelopathy, lumbar region	Diagnosis	ICD-10-CM
M47.20	Other spondylosis with radiculopathy, site unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M47.21	Other spondylosis with radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.22	Other spondylosis with radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.23	Other spondylosis with radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.24	Other spondylosis with radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.25	Other spondylosis with radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.26	Other spondylosis with radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.27	Other spondylosis with radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.28	Other spondylosis with radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.813	Spondylosis without myelopathy or radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.819	Spondylosis without myelopathy or radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.891	Other spondylosis, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.892	Other spondylosis, cervical region	Diagnosis	ICD-10-CM
M47.893	Other spondylosis, cervicothoracic region	Diagnosis	ICD-10-CM
M47.894	Other spondylosis, thoracic region	Diagnosis	ICD-10-CM
M47.895	Other spondylosis, thoracolumbar region	Diagnosis	ICD-10-CM
M47.896	Other spondylosis, lumbar region	Diagnosis	ICD-10-CM
M47.897	Other spondylosis, lumbosacral region	Diagnosis	ICD-10-CM
M47.898	Other spondylosis, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.899	Other spondylosis, site unspecified	Diagnosis	ICD-10-CM
M47.9	Spondylosis, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M48.8X1	Other specified spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M48.8X2	Other specified spondylopathies, cervical region	Diagnosis	ICD-10-CM
M48.8X3	Other specified spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M48.8X4	Other specified spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M48.8X5	Other specified spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M48.8X6	Other specified spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M48.8X7	Other specified spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M48.8X8	Other specified spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.8X9	Other specified spondylopathies, site unspecified	Diagnosis	ICD-10-CM
<b>Stroke/Transient Ischemic Attack</b>			
G45.0	Vertebro-basilar artery syndrome	Diagnosis	ICD-10-CM
G45.1	Carotid artery syndrome (hemispheric)	Diagnosis	ICD-10-CM
G45.2	Multiple and bilateral precerebral artery syndromes	Diagnosis	ICD-10-CM
G45.3	Amaurosis fugax	Diagnosis	ICD-10-CM
G45.8	Other transient cerebral ischemic attacks and related syndromes	Diagnosis	ICD-10-CM
G45.9	Transient cerebral ischemic attack, unspecified	Diagnosis	ICD-10-CM
G46.0	Middle cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.1	Anterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.2	Posterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.3	Brain stem stroke syndrome	Diagnosis	ICD-10-CM
G46.4	Cerebellar stroke syndrome	Diagnosis	ICD-10-CM
G46.5	Pure motor lacunar syndrome	Diagnosis	ICD-10-CM
G46.6	Pure sensory lacunar syndrome	Diagnosis	ICD-10-CM
G46.7	Other lacunar syndromes	Diagnosis	ICD-10-CM
G46.8	Other vascular syndromes of brain in cerebrovascular diseases	Diagnosis	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	Diagnosis	ICD-10-CM
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	Diagnosis	ICD-10-CM
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Diagnosis	ICD-10-CM
I60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Diagnosis	ICD-10-CM
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Diagnosis	ICD-10-CM
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Diagnosis	ICD-10-CM
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	Diagnosis	ICD-10-CM
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	Diagnosis	ICD-10-CM
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Diagnosis	ICD-10-CM
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Diagnosis	ICD-10-CM
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Diagnosis	ICD-10-CM
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Diagnosis	ICD-10-CM
I60.8	Other nontraumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Diagnosis	ICD-10-CM
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Diagnosis	ICD-10-CM
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Diagnosis	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	Diagnosis	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	Diagnosis	ICD-10-CM
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	Diagnosis	ICD-10-CM
I61.8	Other nontraumatic intracerebral hemorrhage	Diagnosis	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.00	Nontraumatic subdural hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.01	Nontraumatic acute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.02	Nontraumatic subacute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.9	Nontraumatic intracranial hemorrhage, unspecified	Diagnosis	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.02	Cerebral infarction due to thrombosis of basilar artery	Diagnosis	ICD-10-CM
I63.031	Cerebral infarction due to thrombosis of right carotid artery	Diagnosis	ICD-10-CM
I63.032	Cerebral infarction due to thrombosis of left carotid artery	Diagnosis	ICD-10-CM
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.09	Cerebral infarction due to thrombosis of other precerebral artery	Diagnosis	ICD-10-CM
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.111	Cerebral infarction due to embolism of right vertebral artery	Diagnosis	ICD-10-CM
I63.112	Cerebral infarction due to embolism of left vertebral artery	Diagnosis	ICD-10-CM
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.12	Cerebral infarction due to embolism of basilar artery	Diagnosis	ICD-10-CM
I63.131	Cerebral infarction due to embolism of right carotid artery	Diagnosis	ICD-10-CM
I63.132	Cerebral infarction due to embolism of left carotid artery	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.19	Cerebral infarction due to embolism of other precerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Diagnosis	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Diagnosis	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.441	Cerebral infarction due to embolism of right cerebellar artery	Diagnosis	ICD-10-CM
I63.442	Cerebral infarction due to embolism of left cerebellar artery	Diagnosis	ICD-10-CM
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.49	Cerebral infarction due to embolism of other cerebral artery	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I63.89	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.9	Cerebral infarction, unspecified	Diagnosis	ICD-10-CM
I67.841	Reversible cerebrovascular vasoconstriction syndrome	Diagnosis	ICD-10-CM
I67.848	Other cerebrovascular vasospasm and vasoconstriction	Diagnosis	ICD-10-CM
I67.89	Other cerebrovascular disease	Diagnosis	ICD-10-CM
I97.810	Intraoperative cerebrovascular infarction during cardiac surgery	Diagnosis	ICD-10-CM
I97.811	Intraoperative cerebrovascular infarction during other surgery	Diagnosis	ICD-10-CM
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	Diagnosis	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	Diagnosis	ICD-10-CM
<b>Acute Respiratory-Related Hospitalization</b>			

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J00	Acute nasopharyngitis [common cold]	Diagnosis	ICD-10-CM
J01	Acute sinusitis	Diagnosis	ICD-10-CM
J01.0	Acute maxillary sinusitis	Diagnosis	ICD-10-CM
J01.00	Acute maxillary sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.01	Acute recurrent maxillary sinusitis	Diagnosis	ICD-10-CM
J01.1	Acute frontal sinusitis	Diagnosis	ICD-10-CM
J01.10	Acute frontal sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.11	Acute recurrent frontal sinusitis	Diagnosis	ICD-10-CM
J01.2	Acute ethmoidal sinusitis	Diagnosis	ICD-10-CM
J01.20	Acute ethmoidal sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.21	Acute recurrent ethmoidal sinusitis	Diagnosis	ICD-10-CM
J01.3	Acute sphenoidal sinusitis	Diagnosis	ICD-10-CM
J01.30	Acute sphenoidal sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.31	Acute recurrent sphenoidal sinusitis	Diagnosis	ICD-10-CM
J01.4	Acute pansinusitis	Diagnosis	ICD-10-CM
J01.40	Acute pansinusitis, unspecified	Diagnosis	ICD-10-CM
J01.41	Acute recurrent pansinusitis	Diagnosis	ICD-10-CM
J01.8	Other acute sinusitis	Diagnosis	ICD-10-CM
J01.80	Other acute sinusitis	Diagnosis	ICD-10-CM
J01.81	Other acute recurrent sinusitis	Diagnosis	ICD-10-CM
J01.9	Acute sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.90	Acute sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.91	Acute recurrent sinusitis, unspecified	Diagnosis	ICD-10-CM
J02	Acute pharyngitis	Diagnosis	ICD-10-CM
J02.0	Streptococcal pharyngitis	Diagnosis	ICD-10-CM
J02.8	Acute pharyngitis due to other specified organisms	Diagnosis	ICD-10-CM
J02.9	Acute pharyngitis, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J03	Acute tonsillitis	Diagnosis	ICD-10-CM
J03.0	Streptococcal tonsillitis	Diagnosis	ICD-10-CM
J03.00	Acute streptococcal tonsillitis, unspecified	Diagnosis	ICD-10-CM
J03.01	Acute recurrent streptococcal tonsillitis	Diagnosis	ICD-10-CM
J03.8	Acute tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.80	Acute tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.81	Acute recurrent tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.9	Acute tonsillitis, unspecified	Diagnosis	ICD-10-CM
J03.90	Acute tonsillitis, unspecified	Diagnosis	ICD-10-CM
J03.91	Acute recurrent tonsillitis, unspecified	Diagnosis	ICD-10-CM
J04	Acute laryngitis and tracheitis	Diagnosis	ICD-10-CM
J04.0	Acute laryngitis	Diagnosis	ICD-10-CM
J04.1	Acute tracheitis	Diagnosis	ICD-10-CM
J04.10	Acute tracheitis without obstruction	Diagnosis	ICD-10-CM
J04.11	Acute tracheitis with obstruction	Diagnosis	ICD-10-CM
J04.2	Acute laryngotracheitis	Diagnosis	ICD-10-CM
J04.3	Supraglottitis, unspecified	Diagnosis	ICD-10-CM
J04.30	Supraglottitis, unspecified, without obstruction	Diagnosis	ICD-10-CM
J04.31	Supraglottitis, unspecified, with obstruction	Diagnosis	ICD-10-CM
J05	Acute obstructive laryngitis [croup] and epiglottitis	Diagnosis	ICD-10-CM
J05.0	Acute obstructive laryngitis [croup]	Diagnosis	ICD-10-CM
J05.1	Acute epiglottitis	Diagnosis	ICD-10-CM
J05.10	Acute epiglottitis without obstruction	Diagnosis	ICD-10-CM
J05.11	Acute epiglottitis with obstruction	Diagnosis	ICD-10-CM
J06	Acute upper respiratory infections of multiple and unspecified sites	Diagnosis	ICD-10-CM
J06.0	Acute laryngopharyngitis	Diagnosis	ICD-10-CM
J06.9	Acute upper respiratory infection, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J09	Influenza due to certain identified influenza viruses	Diagnosis	ICD-10-CM
J09.X	Influenza due to identified novel influenza A virus	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J09.X2	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J09.X3	Influenza due to identified novel influenza A virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J09.X9	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-10-CM
J10	Influenza due to other identified influenza virus	Diagnosis	ICD-10-CM
J10.0	Influenza due to other identified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM
J10.1	Influenza due to other identified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J10.2	Influenza due to other identified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J10.8	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J10.81	Influenza due to other identified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J10.82	Influenza due to other identified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J10.83	Influenza due to other identified influenza virus with otitis media	Diagnosis	ICD-10-CM
J10.89	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11	Influenza due to unidentified influenza virus	Diagnosis	ICD-10-CM
J11.0	Influenza due to unidentified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J11.2	Influenza due to unidentified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J11.8	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11.81	Influenza due to unidentified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J11.82	Influenza due to unidentified influenza virus with myocarditis	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J11.83	Influenza due to unidentified influenza virus with otitis media	Diagnosis	ICD-10-CM
J11.89	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J12	Viral pneumonia, not elsewhere classified	Diagnosis	ICD-10-CM
J12.0	Adenoviral pneumonia	Diagnosis	ICD-10-CM
J12.1	Respiratory syncytial virus pneumonia	Diagnosis	ICD-10-CM
J12.2	Parainfluenza virus pneumonia	Diagnosis	ICD-10-CM
J12.3	Human metapneumovirus pneumonia	Diagnosis	ICD-10-CM
J12.8	Other viral pneumonia	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.89	Other viral pneumonia	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15	Bacterial pneumonia, not elsewhere classified	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.2	Pneumonia due to staphylococcus	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J15.21	Pneumonia due to staphylococcus aureus	Diagnosis	ICD-10-CM
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.5	Pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16	Pneumonia due to other infectious organisms, not elsewhere classified	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.2	Hypostatic pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J20	Acute bronchitis	Diagnosis	ICD-10-CM
J20.0	Acute bronchitis due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J20.1	Acute bronchitis due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J20.2	Acute bronchitis due to streptococcus	Diagnosis	ICD-10-CM
J20.3	Acute bronchitis due to coxsackievirus	Diagnosis	ICD-10-CM
J20.4	Acute bronchitis due to parainfluenza virus	Diagnosis	ICD-10-CM
J20.5	Acute bronchitis due to respiratory syncytial virus	Diagnosis	ICD-10-CM
J20.6	Acute bronchitis due to rhinovirus	Diagnosis	ICD-10-CM
J20.7	Acute bronchitis due to echovirus	Diagnosis	ICD-10-CM
J20.8	Acute bronchitis due to other specified organisms	Diagnosis	ICD-10-CM
J20.9	Acute bronchitis, unspecified	Diagnosis	ICD-10-CM
J21	Acute bronchiolitis	Diagnosis	ICD-10-CM
J21.0	Acute bronchiolitis due to respiratory syncytial virus	Diagnosis	ICD-10-CM
J21.1	Acute bronchiolitis due to human metapneumovirus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J21.8	Acute bronchiolitis due to other specified organisms	Diagnosis	ICD-10-CM
J21.9	Acute bronchiolitis, unspecified	Diagnosis	ICD-10-CM
J22	Unspecified acute lower respiratory infection	Diagnosis	ICD-10-CM
<b>High Risk Component: Blood Disorders</b>			
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.03	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.09	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia, unspecified, with splenic sequestration	Diagnosis	ICD-10-CM
D57.413	Sickle-cell thalassemia, unspecified, with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.418	Sickle-cell thalassemia, unspecified, with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.42	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57.432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57.433	Sickle-cell thalassemia beta zero with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.438	Sickle-cell thalassemia beta zero with crisis with other specified complication	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D57.439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D57.44	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57.452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM
D57.453	Sickle-cell thalassemia beta plus with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.458	Sickle-cell thalassemia beta plus with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57.813	Other sickle-cell disorders with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.818	Other sickle-cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
<b>High Risk Component: Chronic Lung Disease</b>			
D81.810	Biotinidase deficiency	Diagnosis	ICD-10-CM
D84.1	Defects in the complement system	Diagnosis	ICD-10-CM
E00.0	Congenital iodine-deficiency syndrome, neurological type	Diagnosis	ICD-10-CM
E00.1	Congenital iodine-deficiency syndrome, myxedematous type	Diagnosis	ICD-10-CM
E00.2	Congenital iodine-deficiency syndrome, mixed type	Diagnosis	ICD-10-CM
E00.9	Congenital iodine-deficiency syndrome, unspecified	Diagnosis	ICD-10-CM
E03.0	Congenital hypothyroidism with diffuse goiter	Diagnosis	ICD-10-CM
E03.1	Congenital hypothyroidism without goiter	Diagnosis	ICD-10-CM
E25.0	Congenital adrenogenital disorders associated with enzyme deficiency	Diagnosis	ICD-10-CM
E25.8	Other adrenogenital disorders	Diagnosis	ICD-10-CM
E25.9	Adrenogenital disorder, unspecified	Diagnosis	ICD-10-CM
E56.9	Vitamin deficiency, unspecified	Diagnosis	ICD-10-CM
E70.0	Classical phenylketonuria	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E70.1	Other hyperphenylalaninemias	Diagnosis	ICD-10-CM
E70.20	Disorder of tyrosine metabolism, unspecified	Diagnosis	ICD-10-CM
E70.21	Tyrosinemia	Diagnosis	ICD-10-CM
E70.29	Other disorders of tyrosine metabolism	Diagnosis	ICD-10-CM
E70.30	Albinism, unspecified	Diagnosis	ICD-10-CM
E70.310	X-linked ocular albinism	Diagnosis	ICD-10-CM
E70.311	Autosomal recessive ocular albinism	Diagnosis	ICD-10-CM
E70.318	Other ocular albinism	Diagnosis	ICD-10-CM
E70.319	Ocular albinism, unspecified	Diagnosis	ICD-10-CM
E70.320	Tyrosinase negative oculocutaneous albinism	Diagnosis	ICD-10-CM
E70.321	Tyrosinase positive oculocutaneous albinism	Diagnosis	ICD-10-CM
E70.328	Other oculocutaneous albinism	Diagnosis	ICD-10-CM
E70.329	Oculocutaneous albinism, unspecified	Diagnosis	ICD-10-CM
E70.330	Chediak-Higashi syndrome	Diagnosis	ICD-10-CM
E70.331	Hermansky-Pudlak syndrome	Diagnosis	ICD-10-CM
E70.338	Other albinism with hematologic abnormality	Diagnosis	ICD-10-CM
E70.339	Albinism with hematologic abnormality, unspecified	Diagnosis	ICD-10-CM
E70.39	Other specified albinism	Diagnosis	ICD-10-CM
E70.5	Disorders of tryptophan metabolism	Diagnosis	ICD-10-CM
E70.8	Other disorders of aromatic amino-acid metabolism	Diagnosis	ICD-10-CM
E70.81	Aromatic L-amino acid decarboxylase deficiency	Diagnosis	ICD-10-CM
E70.89	Other disorders of aromatic amino-acid metabolism	Diagnosis	ICD-10-CM
E70.9	Disorder of aromatic amino-acid metabolism, unspecified	Diagnosis	ICD-10-CM
E71.0	Maple-syrup-urine disease	Diagnosis	ICD-10-CM
E71.110	Isovaleric acidemia	Diagnosis	ICD-10-CM
E71.111	3-methylglutaconic aciduria	Diagnosis	ICD-10-CM
E71.118	Other branched-chain organic acidurias	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E71.19	Other disorders of branched-chain amino-acid metabolism	Diagnosis	ICD-10-CM
E71.2	Disorder of branched-chain amino-acid metabolism, unspecified	Diagnosis	ICD-10-CM
E71.310	Long chain/very long chain acyl CoA dehydrogenase deficiency	Diagnosis	ICD-10-CM
E71.311	Medium chain acyl CoA dehydrogenase deficiency	Diagnosis	ICD-10-CM
E71.312	Short chain acyl CoA dehydrogenase deficiency	Diagnosis	ICD-10-CM
E71.313	Glutaric aciduria type II	Diagnosis	ICD-10-CM
E71.314	Muscle carnitine palmitoyltransferase deficiency	Diagnosis	ICD-10-CM
E71.318	Other disorders of fatty-acid oxidation	Diagnosis	ICD-10-CM
E71.32	Disorders of ketone metabolism	Diagnosis	ICD-10-CM
E71.41	Primary carnitine deficiency	Diagnosis	ICD-10-CM
E72.10	Disorders of sulfur-bearing amino-acid metabolism, unspecified	Diagnosis	ICD-10-CM
E72.11	Homocystinuria	Diagnosis	ICD-10-CM
E72.12	Methylenetetrahydrofolate reductase deficiency	Diagnosis	ICD-10-CM
E72.19	Other disorders of sulfur-bearing amino-acid metabolism	Diagnosis	ICD-10-CM
E72.20	Disorder of urea cycle metabolism, unspecified	Diagnosis	ICD-10-CM
E72.21	Argininemia	Diagnosis	ICD-10-CM
E72.22	Arginosuccinic aciduria	Diagnosis	ICD-10-CM
E72.23	Citrullinemia	Diagnosis	ICD-10-CM
E72.29	Other disorders of urea cycle metabolism	Diagnosis	ICD-10-CM
E72.3	Disorders of lysine and hydroxylysine metabolism	Diagnosis	ICD-10-CM
E72.4	Disorders of ornithine metabolism	Diagnosis	ICD-10-CM
E72.50	Disorder of glycine metabolism, unspecified	Diagnosis	ICD-10-CM
E72.51	Non-ketotic hyperglycinemia	Diagnosis	ICD-10-CM
E72.59	Other disorders of glycine metabolism	Diagnosis	ICD-10-CM
E72.8	Other specified disorders of amino-acid metabolism	Diagnosis	ICD-10-CM
E74.20	Disorders of galactose metabolism, unspecified	Diagnosis	ICD-10-CM
E74.21	Galactosemia	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E74.29	Other disorders of galactose metabolism	Diagnosis	ICD-10-CM
E74.810	Glucose transporter protein type 1 deficiency	Diagnosis	ICD-10-CM
E74.818	Other disorders of glucose transport	Diagnosis	ICD-10-CM
E74.819	Disorders of glucose transport, unspecified	Diagnosis	ICD-10-CM
E74.89	Other specified disorders of carbohydrate metabolism	Diagnosis	ICD-10-CM
E84.0	Cystic fibrosis with pulmonary manifestations	Diagnosis	ICD-10-CM
E84.11	Meconium ileus in cystic fibrosis	Diagnosis	ICD-10-CM
E84.19	Cystic fibrosis with other intestinal manifestations	Diagnosis	ICD-10-CM
E84.8	Cystic fibrosis with other manifestations	Diagnosis	ICD-10-CM
E84.9	Cystic fibrosis, unspecified	Diagnosis	ICD-10-CM
<b>High Risk Component: Immunocompromised Condition/Medication</b>			
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
Z49	Encounter for care involving renal dialysis	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
B20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
E40	Kwashiorkor	Diagnosis	ICD-10-CM
E42	Marasmic kwashiorkor	Diagnosis	ICD-10-CM
E41	Nutritional marasmus	Diagnosis	ICD-10-CM
E43	Unspecified severe protein-calorie malnutrition	Diagnosis	ICD-10-CM
D71	Functional disorders of polymorphonuclear neutrophils	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
B20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
B97.35	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
R75	Inconclusive laboratory evidence of human immunodeficiency virus [HIV]	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
A4709	Acid concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
A4708	Acetate concentrate solution, for hemodialysis, per gallon	Procedure	HCPCS
A4680	Activated carbon filter for hemodialysis, each	Procedure	HCPCS
Q3001	Radioelements for brachytherapy, any type, each	Procedure	HCPCS
E1570	Adjustable chair, for ESRD patients	Procedure	HCPCS
G3001	Administration and supply of tositumomab, 450 mg	Procedure	HCPCS
E1530	Air bubble detector for hemodialysis, each, replacement	Procedure	HCPCS
38242	Allogeneic lymphocyte infusions	Procedure	CPT-4
E1592	Automatic intermittent peritoneal dialysis system	Procedure	HCPCS
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
C9436	Azathioprine, parenteral, brand name, per 100 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
K0119	Azathioprine, oral, tab, 50 mg	Procedure	HCPCS
K0120	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
E1550	Bath conductivity meter for hemodialysis, each	Procedure	HCPCS
S0116	Bevacizumab, 100 mg	Procedure	HCPCS
A4707	Bicarbonate concentrate, powder, for hemodialysis, per packet	Procedure	HCPCS
A4706	Bicarbonate concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS
A4705	Bicarbonate dialysate solution, each	Procedure	HCPCS
C9417	Bleomycin sulfate, 15 units, brand name	Procedure	HCPCS
E1560	Blood leak detector for hemodialysis, each, replacement	Procedure	HCPCS
E1620	Blood pump for hemodialysis, replacement	Procedure	HCPCS
A4755	Blood tubing, arterial and venous combined, for hemodialysis, each	Procedure	HCPCS
A4750	Blood tubing, arterial or venous, for hemodialysis, each	Procedure	HCPCS
S2150	Bone marrow or blood-derived stem cells (peripheral or umbilical), allogeneic or autologous, harvesting, transplantation, and related complications; including: pheresis and cell preparation/storage; marrow ablative therapy; drugs, supplies, hospitalization with outpatient follow-up; medical/surgical, diagnostic, emergency, and rehabilitative services; and the number of days of pre- and posttransplant care in the global definition	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
S0115	Bortezomib, 3.5 mg	Procedure	HCPCS
C2643	Brachytherapy source, nonstranded, cesium-131, per source	Procedure	HCPCS
C1716	Brachytherapy source, nonstranded, gold-198, per source	Procedure	HCPCS
C2639	Brachytherapy source, nonstranded, iodine-125, per source	Procedure	HCPCS
C2641	Brachytherapy source, nonstranded, palladium-103, per source	Procedure	HCPCS
C2616	Brachytherapy source, nonstranded, yttrium-90, per source	Procedure	HCPCS
C2699	Brachytherapy source, nonstranded, not otherwise specified, per source	Procedure	HCPCS
C2698	Brachytherapy source, stranded, not otherwise specified, per source	Procedure	HCPCS
C2644	Brachytherapy source, cesium-131 chloride solution, per mCi	Procedure	HCPCS
C2642	Brachytherapy source, stranded, cesium-131, per source	Procedure	HCPCS
C2638	Brachytherapy source, stranded, iodine-125, per source	Procedure	HCPCS
C2640	Brachytherapy source, stranded, palladium-103, per source	Procedure	HCPCS
C2636	Brachytherapy linear source, nonstranded, palladium-103, per 1 mm	Procedure	HCPCS
C2634	Brachytherapy source, nonstranded, high activity, iodine-125, greater than 1.01 mCi (NIST), per source	Procedure	HCPCS
C1717	Brachytherapy source, nonstranded, high dose rate iridium-192, per source	Procedure	HCPCS
C1719	Brachytherapy source, nonstranded, nonhigh dose rate iridium-192, per source	Procedure	HCPCS
C2637	Brachytherapy source, nonstranded, ytterbium-169, per source	Procedure	HCPCS
C2635	Brachytherapy source, nonstranded, high activity, palladium-103, greater than 2.2 mCi (NIST), per source	Procedure	HCPCS
31643	Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; with placement of catheter(s) for intracavitary radioelement application	Procedure	CPT-4
J8510	Busulfan, oral, 2 mg	Procedure	HCPCS
J8520	Capecitabine, oral, 150 mg	Procedure	HCPCS
J8521	Capecitabine, oral, 500 mg	Procedure	HCPCS
C9437	Carmustine, brand name, 100 mg	Procedure	HCPCS
E1500	Centrifuge, for dialysis	Procedure	HCPCS
96422	Chemotherapy administration, intra-arterial; infusion technique, up to 1 hour	Procedure	CPT-4
96420	Chemotherapy administration, intra-arterial; push technique	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
96423	Chemotherapy administration, intra-arterial; infusion technique, each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96415	Chemotherapy administration, intravenous infusion technique; each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
G0498	Chemotherapy administration, intravenous infusion technique; initiation of infusion in the office/clinic setting using office/clinic pump/supplies, with continuation of the infusion in the community setting (e.g., home, domiciliary, rest home or assisted living) using a portable pump provided by the office/clinic, includes follow up office/clinic visit at the conclusion of the infusion	Procedure	HCPCS
96450	Chemotherapy administration, into CNS (eg, intrathecal), requiring and including spinal puncture	Procedure	CPT-4
96425	Chemotherapy administration, intra-arterial; infusion technique, initiation of prolonged infusion (more than 8 hours), requiring the use of a portable or implantable pump	Procedure	CPT-4
96417	Chemotherapy administration, intravenous infusion technique; each additional sequential infusion (different substance/drug), up to 1 hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug	Procedure	CPT-4
96409	Chemotherapy administration; intravenous, push technique, single or initial substance/drug	Procedure	CPT-4
96411	Chemotherapy administration; intravenous, push technique, each additional substance/drug (List separately in addition to code for primary procedure)	Procedure	CPT-4
96440	Chemotherapy administration into pleural cavity, requiring and including thoracentesis	Procedure	CPT-4
96446	Chemotherapy administration into the peritoneal cavity via indwelling port or catheter	Procedure	CPT-4
96402	Chemotherapy administration, subcutaneous or intramuscular; hormonal anti-neoplastic	Procedure	CPT-4
96401	Chemotherapy administration, subcutaneous or intramuscular; non-hormonal anti-neoplastic	Procedure	CPT-4
96416	Chemotherapy administration, intravenous infusion technique; initiation of prolonged chemotherapy infusion (more than 8 hours), requiring use of a portable or implantable pump	Procedure	CPT-4
96542	Chemotherapy injection, subarachnoid or intraventricular via subcutaneous reservoir, single or multiple agents	Procedure	CPT-4
A4674	Chemicals/antiseptics solution used to clean/sterilize dialysis equipment, per 8 oz	Procedure	HCPCS
S0172	Chlorambucil, oral, 2 mg	Procedure	HCPCS
J9062	Cisplatin, 50 mg	Procedure	HCPCS
C9418	Cisplatin, powder or solution, per 10 mg, brand name	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
4153F	Combination peginterferon and ribavirin therapy prescribed (HEP-C)	Procedure	CPT-2
E1635	Compact (portable) travel hemodialyzer system	Procedure	HCPCS
A4900	Continuous ambulatory peritoneal dialysis (capd) supply kit	Procedure	HCPCS
A4901	Continuous cycling peritoneal dialysis (ccpd) supply kit	Procedure	HCPCS
A4890	Contracts, repair and maintenance, for hemodialysis equipment	Procedure	HCPCS
S2142	Cord blood-derived stem-cell transplantation, allogeneic	Procedure	HCPCS
E1594	Cycler dialysis machine for peritoneal dialysis	Procedure	HCPCS
J9091	Cyclophosphamide, 1 g	Procedure	HCPCS
J9070	Cyclophosphamide, 100 mg	Procedure	HCPCS
C9420	Cyclophosphamide, 100 mg, brand name	Procedure	HCPCS
J9092	Cyclophosphamide, 2 g	Procedure	HCPCS
J9080	Cyclophosphamide, 200 mg	Procedure	HCPCS
J9090	Cyclophosphamide, 500 mg	Procedure	HCPCS
J9096	Cyclophosphamide, lyophilized, 1 g	Procedure	HCPCS
J9093	Cyclophosphamide, lyophilized, 100 mg	Procedure	HCPCS
C9421	Cyclophosphamide, lyophilized, 100 mg, brand name	Procedure	HCPCS
J9097	Cyclophosphamide, lyophilized, 2 g	Procedure	HCPCS
J9094	Cyclophosphamide, lyophilized, 200 mg	Procedure	HCPCS
J9095	Cyclophosphamide, lyophilized, 500 mg	Procedure	HCPCS
J8530	Cyclophosphamide, oral, 25 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
C9438	Cyclosporine, oral, 100 mg, brand name	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7516	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
K0122	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
C9422	Cytarabine, 100 mg, brand name	Procedure	HCPCS
J9130	Dacarbazine, 100 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C9423	Dacarbazine, 100 mg, brand name	Procedure	HCPCS
J9140	Dacarbazine, 200 mg	Procedure	HCPCS
J7513	Daclizumab, parenteral, 25 mg	Procedure	HCPCS
C9424	Daunorubicin, 10 mg	Procedure	HCPCS
E1615	Deionizer water purification system, for hemodialysis	Procedure	HCPCS
E1600	Delivery and/or installation charges for hemodialysis equipment	Procedure	HCPCS
C1084	Denileukin diftitox, 300 mcg, ontak iv	Procedure	HCPCS
A4765	Dialysate concentrate, powder, additive for peritoneal dialysis, per packet	Procedure	HCPCS
A4766	Dialysate concentrate, solution, additive for peritoneal dialysis, per 10 ml	Procedure	HCPCS
A4726	Dialysate solution, any concentration of dextrose, fluid volume greater than 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4720	Dialysate solution, any concentration of dextrose, fluid volume greater than 249 cc, but less than or equal to 999 cc, for peritoneal dialysis	Procedure	HCPCS
A4721	Dialysate solution, any concentration of dextrose, fluid volume greater than 999 cc but less than or equal to 1999 cc, for peritoneal dialysis	Procedure	HCPCS
A4722	Dialysate solution, any concentration of dextrose, fluid volume greater than 1999 cc but less than or equal to 2999 cc, for peritoneal dialysis	Procedure	HCPCS
A4723	Dialysate solution, any concentration of dextrose, fluid volume greater than 2999 cc but less than or equal to 3999 cc, for peritoneal dialysis	Procedure	HCPCS
A4724	Dialysate solution, any concentration of dextrose, fluid volume greater than 3999 cc but less than or equal to 4999 cc, for peritoneal dialysis	Procedure	HCPCS
A4725	Dialysate solution, any concentration of dextrose, fluid volume greater than 4999 cc but less than or equal to 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4760	Dialysate solution test kit, for peritoneal dialysis, any type, each	Procedure	HCPCS
A4728	Dialysate solution, nondextrose containing, 500 ml	Procedure	HCPCS
A4690	Dialyzer (artificial kidneys), all types, all sizes, for hemodialysis, each	Procedure	HCPCS
A4860	Disposable catheter tips for peritoneal dialysis, per 10	Procedure	HCPCS
A4671	Disposable cycler set used with cycler dialysis machine, each	Procedure	HCPCS
C9415	Doxorubicin HCl, 10 mg, brand name	Procedure	HCPCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
A4911	Drain bag/bottle, for dialysis, each	Procedure	HCPCS
A4672	Drainage extension line, sterile, for dialysis, each	Procedure	HCPCS
J9180	Epirubicin HCl, 50 mg	Procedure	HCPCS
C9425	Etoposide, 10 mg, brand name	Procedure	HCPCS
J9182	Etoposide, 100 mg	Procedure	HCPCS
J8560	Etoposide, oral, 50 mg	Procedure	HCPCS
C9414	Etoposide; oral, 50 mg, brand name	Procedure	HCPCS
J7527	Everolimus, oral, 0.25 mg	Procedure	HCPCS
J8561	Everolimus, oral, 0.25 mg	Procedure	HCPCS
55860	Exposure of prostate, any approach, for insertion of radioactive substance;	Procedure	CPT-4
55865	Exposure of prostate, any approach, for insertion of radioactive substance; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes	Procedure	CPT-4
55862	Exposure of prostate, any approach, for insertion of radioactive substance; with lymph node biopsy(s) (limited pelvic lymphadenectomy)	Procedure	CPT-4
A4673	Extension line with easy lock connectors, used with dialysis	Procedure	HCPCS
A4730	Fistula cannulation set for hemodialysis, each	Procedure	HCPCS
C9426	Floxuridine, 500 mg, brand name	Procedure	HCPCS
C9262	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
Q2025	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
J8562	Fludarabine phosphate, oral, 10 mg	Procedure	HCPCS
J8565	Gefitinib, oral, 250 mg	Procedure	HCPCS
A4912	Gomco drain bottle	Procedure	HCPCS
0395T	High dose rate electronic brachytherapy, interstitial or intracavitary treatment, per fraction, includes basic dosimetry, when performed	Procedure	CPT-3
0182T	High dose rate electronic brachytherapy, per fraction	Procedure	CPT-3
0394T	High dose rate electronic brachytherapy, skin surface application, per fraction, includes basic dosimetry, when performed	Procedure	CPT-3

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
77772	Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; over 12 channels	Procedure	CTP-4
77770	Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; 1 channel	Procedure	CTP-4
77771	Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; 2-12 channels	Procedure	CTP-4
77768	Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter over 2.0 cm and 2 or more channels, or multiple lesions	Procedure	CTP-4
77767	Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter up to 2.0 cm or 1 channel	Procedure	CTP-4
33935	Heart-lung transplant with recipient cardiectomy-pneumonectomy	Procedure	CTP-4
33945	Heart transplant, with or without recipient cardiectomy	Procedure	CTP-4
A4820	Hemodialysis kit supplies	Procedure	HCPCS
E1590	Hemodialysis machine	Procedure	HCPCS
A4850	Hemostats with rubber tips for dialysis	Procedure	HCPCS
E1520	Heparin infusion pump for hemodialysis	Procedure	HCPCS
77422	High energy neutron radiation treatment delivery; single treatment area using a single port or parallel-opposed ports with no blocks or simple blocking	Procedure	CPT-4
77423	High energy neutron radiation treatment delivery, 1 or more isocenter(s) with coplanar or non-coplanar geometry with blocking and/or wedge, and/or compensator(s)	Procedure	CPT-4
3490F	History of AIDS-defining condition (HIV)	Procedure	CPT-2
S0176	Hydroxyurea, oral, 500 mg	Procedure	HCPCS
C9429	Idarubicin HCl, 5 mg, brand name	Procedure	HCPCS
C9427	Ifosfamide, 1 gm, brand name	Procedure	HCPCS
S0088	Imatinib, 100 mg	Procedure	HCPCS
J7599	Immunosuppressive drug, not otherwise classified	Procedure	HCPCS
J0129	Injection, abatacept, 10 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
C9110	Injection, alemtuzumab, per 10 mg/ ml	Procedure	HCPCS
C9289	Injection, asparaginase Erwinia chrysanthemi, 1,000 IU	Procedure	HCPCS
J9151	Injection, daunorubicin citrate, liposomal formulation, 10 mg	Procedure	HCPCS
Q2049	Injection, doxorubicin HCl, liposomal, imported Lipodox, 10 mg	Procedure	HCPCS
J9001	Injection, doxorubicin HCl, all lipid formulations, 10 mg	Procedure	HCPCS
Q2048	Injection, doxorubicin hydrochloride, liposomal, DOXIL, 10 mg	Procedure	HCPCS
C9004	Injection, gemtuzumab ozogamicin, per 5 mg	Procedure	HCPCS
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
C9127	Injection, paclitaxel protein-bound particles, per 1 mg	Procedure	HCPCS
C9235	Injection, panitumumab, 10 mg	Procedure	HCPCS
S0146	Injection, pegylated interferon alfa-2b, 10 mcg per 0.5 ml	Procedure	HCPCS
S0145	Injection, PEGylated interferon alfa-2A, 180 mcg per ml	Procedure	HCPCS
Q5119	Injection, rituximab-pvvr, biosimilar, (RUXIENCE), 10 mg	Procedure	HCPCS
C9006	Injection, tacrolimus, per 5 mg (1 amp)	Procedure	HCPCS
A4737	Injectable anesthetic, for dialysis, per 10 ml	Procedure	HCPCS
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
C9230	Injection, abatacept, per 10 mg	Procedure	HCPCS
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
J9015	Injection, aldesleukin, per single use vial	Procedure	HCPCS
J0215	Injection, alefacept, 0.5 mg	Procedure	HCPCS
S0193	Injection alefacept, 7.5 mg (includes dose packaging)	Procedure	HCPCS
C9212	Injection, alefacept, for intramuscular use, per 7.5 mg	Procedure	HCPCS
C9211	Injection, alefacept, for intravenous use, per 7.5 mg	Procedure	HCPCS
J0202	Injection, alemtuzumab, 1 mg	Procedure	HCPCS
Q9979	Injection, Alemtuzumab, 1 mg	Procedure	HCPCS
J9010	Injection, alemtuzumab, 10 mg	Procedure	HCPCS
S0087	Injection, alemtuzumab, 30 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J0207	Injection, amifostine, 500 mg	Procedure	HCPCS
J9017	Injection, arsenic trioxide, 1 mg	Procedure	HCPCS
C9012	Injection, arsenic trioxide, per 1 mg/kg	Procedure	HCPCS
J9020	Injection, asparaginase, not otherwise specified, 10,000 units	Procedure	HCPCS
J9019	Injection, asparaginase (Erwinaze), 1,000 IU	Procedure	HCPCS
J2910	Injection, aurothioglucose, up to 50 mg	Procedure	HCPCS
J9025	Injection, azacitidine, 1 mg	Procedure	HCPCS
S0168	Injection, azacitidine, 100 mg	Procedure	HCPCS
C9218	Injection, azacitidine, per 1 mg	Procedure	HCPCS
J0480	Injection, basiliximab, 20 mg	Procedure	HCPCS
Q2019	Injection, basiliximab, 20 mg	Procedure	HCPCS
C9286	Injection, belatacept, 1 mg	Procedure	HCPCS
J0485	Injection, belatacept, 1 mg	Procedure	HCPCS
J0490	Injection, belimumab, 10 mg	Procedure	HCPCS
Q2044	Injection, belimumab, 10 mg	Procedure	HCPCS
C9042	Injection, bendamustine HCl (Belrapzo), 1 mg	Procedure	HCPCS
C9243	Injection, bendamustine hcl, 1 mg	Procedure	HCPCS
J9034	Injection, bendamustine HCl (Bendeka), 1 mg	Procedure	HCPCS
J9033	Injection, bendamustine HCl (Treanda), 1 mg	Procedure	HCPCS
J9036	Injection, bendamustine hydrochloride, (Belrapzo/bendamustine), 1 mg	Procedure	HCPCS
Q5107	Injection, bevacizumab-awwb, biosimilar, (Mvasi), 10 mg	Procedure	HCPCS
Q5118	Injection, bevacizumab-bvzr, biosimilar, (Zirabev), 10 mg	Procedure	HCPCS
J9035	Injection, bevacizumab, 10 mg	Procedure	HCPCS
C9214	Injection, bevacizumab, per 10 mg	Procedure	HCPCS
J9040	Injection, bleomycin sulfate, 15 units	Procedure	HCPCS
J9041	Injection, bortezomib (Velcade), 0.1 mg	Procedure	HCPCS
C9207	Injection, bortezomib, per 3.5 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
C9287	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
J9042	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
J0594	Injection, busulfan, 1 mg	Procedure	HCPCS
C1178	Injection, busulfan, per 6 mg	Procedure	HCPCS
C9276	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
J9043	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
J9118	Injection, calaspargase pegol-mknl, 10 units	Procedure	HCPCS
J0638	Injection, canakinumab, 1 mg	Procedure	HCPCS
J9045	Injection, carboplatin, 50 mg	Procedure	HCPCS
C9295	Injection, carfilzomib, 1 mg	Procedure	HCPCS
J9047	Injection, carfilzomib, 1 mg	Procedure	HCPCS
J9050	Injection, carmustine, 100 mg	Procedure	HCPCS
C9044	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
J9119	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J9055	Injection, cetuximab, 10 mg	Procedure	HCPCS
C9215	Injection, cetuximab, per 10 mg	Procedure	HCPCS
J9060	Injection, cisplatin, powder or solution, 10 mg	Procedure	HCPCS
J9065	Injection, cladribine, per 1 mg	Procedure	HCPCS
C9419	Injection, cladribine, per 1 mg, brand name	Procedure	HCPCS
J9027	Injection, clofarabine, 1 mg	Procedure	HCPCS
C9129	Injection, clofarabine, per 1 mg	Procedure	HCPCS
J9057	Injection, copanlisib, 1 mg	Procedure	HCPCS
J9100	Injection, cytarabine, 100 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J9110	Injection, cytarabine, 500 mg	Procedure	HCPCS
J9098	Injection, cytarabine liposome, 10 mg	Procedure	HCPCS
C1166	Injection, cytarabine liposome, per 10 mg	Procedure	HCPCS
J9120	Injection, dactinomycin, 0.5 mg	Procedure	HCPCS
J9150	Injection, daunorubicin, 10 mg	Procedure	HCPCS
J0894	Injection, decitabine, 1 mg	Procedure	HCPCS
C9231	Injection, decitabine, per 1 mg	Procedure	HCPCS
J9160	Injection, denileukin diftitox, 300 mcg	Procedure	HCPCS
J0897	Injection, denosumab, 1 mg	Procedure	HCPCS
J9171	Injection, docetaxel, 1 mg	Procedure	HCPCS
J9170	Injection, docetaxel, 20 mg	Procedure	HCPCS
J9002	Injection, doxorubicin hydrochloride, liposomal, Doxil, 10 mg	Procedure	HCPCS
J9000	Injection, doxorubicin HCl, 10 mg	Procedure	HCPCS
Q2050	Injection, doxorubicin HCl, liposomal, not otherwise specified, 10 mg	Procedure	HCPCS
J9173	Injection, durvalumab, 10 mg	Procedure	HCPCS
J1300	Injection, eculizumab, 10 mg	Procedure	HCPCS
C9236	Injection, eculizumab, 10 mg	Procedure	HCPCS
S0162	Injection, efalizumab, 125 mg	Procedure	HCPCS
C9050	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
J9210	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
J9178	Injection, epirubicin HCl, 2 mg	Procedure	HCPCS
C1167	Injection, epirubicin HCl, 2 mg	Procedure	HCPCS
J9179	Injection, eribulin mesylate, 0.1 mg	Procedure	HCPCS
C9280	Injection, eribulin mesylate, 1 mg	Procedure	HCPCS
J1438	Injection, etanercept, 25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J9181	Injection, etoposide, 10 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
J9200	Injection, floxuridine, 500 mg	Procedure	HCPCS
J9185	Injection, fludarabine phosphate, 50 mg	Procedure	HCPCS
J9190	Injection, fluorouracil, 500 mg	Procedure	HCPCS
J3031	Injection, fremanezumab-vfrm, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J9201	Injection, gemcitabine HCl, not otherwise specified, 200 mg	Procedure	HCPCS
J9203	Injection, gemtuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9300	Injection, gemtuzumab ozogamicin, 5 mg	Procedure	HCPCS
J1595	Injection, glatiramer acetate, 20 mg	Procedure	HCPCS
Q2010	Injection, glatiramer acetate, per dose	Procedure	HCPCS
J1600	Injection, gold sodium thiomalate, up to 50 mg	Procedure	HCPCS
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
C9029	Injection, guselkumab, 1 mg	Procedure	HCPCS
J1628	Injection, guselkumab, 1 mg	Procedure	HCPCS
J9211	Injection, idarubicin HCl, 5 mg	Procedure	HCPCS
J9208	Injection, ifosfamide, 1 g	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
J9229	Injection, inotuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9215	Injection, interferon, alfa-N3, (human leukocyte derived), 250,000 IU	Procedure	HCPCS
J9212	Injection, interferon alfacon-1, recombinant, 1 mcg	Procedure	HCPCS
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
Q3026	Injection, interferon beta-1a, 11 mcg for subcutaneous use	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	Procedure	HCPCS
J1825	Injection, interferon beta-1a, 33 mcg	Procedure	HCPCS
J1830	Injection interferon beta-1b, 0.25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J9216	Injection, interferon, gamma 1-b, 3 million units	Procedure	HCPCS
Q3025	Injection, interferon beta-1a, 11 mcg for intramuscular use	Procedure	HCPCS
C9284	Injection, ipilimumab, 1 mg	Procedure	HCPCS
J9228	Injection, ipilimumab, 1 mg	Procedure	HCPCS
J9206	Injection, irinotecan, 20 mg	Procedure	HCPCS
C9474	Injection, irinotecan liposome, 1 mg	Procedure	HCPCS
J9205	Injection, irinotecan liposome, 1 mg	Procedure	HCPCS
C9240	Injection, ixabepilone, 1 mg	Procedure	HCPCS
J9207	Injection, ixabepilone, 1 mg	Procedure	HCPCS
J0593	Injection, lanadelumab-flyo, 1 mg (code may be used for Medicare when drug administered under direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
C9024	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
J9153	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
J9230	Injection, mechlorethamine HCl, (nitrogen mustard), 10 mg	Procedure	HCPCS
J9245	Injection, melphalan hydrochloride, not otherwise specified, 50 mg	Procedure	HCPCS
J9280	Injection, mitomycin, 5 mg	Procedure	HCPCS
J9293	Injection, mitoxantrone HCl, per 5 mg	Procedure	HCPCS
J9204	Injection, mogamulizumab-kpkc, 1 mg	Procedure	HCPCS
C9045	Injection, moxetumomab pasudotox-tdfk, 0.01 mg	Procedure	HCPCS
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS
C9126	Injection natalizumab per 5 mg	Procedure	HCPCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J9261	Injection, nelarabine, 50 mg	Procedure	HCPCS
C9021	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
J9301	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
J2350	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
C9260	Injection, ofatumumab, 10 mg	Procedure	HCPCS
J9302	Injection, ofatumumab, 10 mg	Procedure	HCPCS
J9262	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
C9297	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
J9263	Injection, oxaliplatin, 0.5 mg	Procedure	HCPCS
J9267	Injection, paclitaxel, 1 mg	Procedure	HCPCS
J9265	Injection, paclitaxel, 30 mg	Procedure	HCPCS
J9264	Injection, paclitaxel protein-bound particles, 1 mg	Procedure	HCPCS
J9303	Injection, panitumumab, 10 mg	Procedure	HCPCS
J2504	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
Q2012	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
J9266	Injection, pegaspargase, per single dose vial	Procedure	HCPCS
S0148	Injection, PEGylated interferon alfa-2B, 10 mcg	Procedure	HCPCS
J9271	Injection, pembrolizumab, 1 mg	Procedure	HCPCS
J9305	Injection, pemetrexed, NOS, 10 mg	Procedure	HCPCS
C9213	Injection, pemetrexed, per 10 mg	Procedure	HCPCS
J9268	Injection, pentostatin, 10 mg	Procedure	HCPCS
J9306	Injection, pertuzumab, 1 mg	Procedure	HCPCS
C9292	Injection, pertuzumab, 10 mg	Procedure	HCPCS
J9270	Injection, plicamycin, 2.5 mg	Procedure	HCPCS
C9259	Injection, pralatrexate, 1 mg	Procedure	HCPCS
J9307	Injection, pralatrexate, 1 mg	Procedure	HCPCS
J1303	Injection, ravulizumab-cwvz, 10 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
J2793	Injection, rilonacept, 1 mg	Procedure	HCPCS
Q5115	Injection, rituximab-abbs, biosimilar, (Truxima), 10 mg	Procedure	HCPCS
J9312	Injection, rituximab, 10 mg	Procedure	HCPCS
J9311	Injection, rituximab 10 mg and hyaluronidase	Procedure	HCPCS
J9310	Injection, rituximab, 100 mg	Procedure	HCPCS
C9265	Injection, romidepsin, 1 mg	Procedure	HCPCS
J9315	Injection, romidepsin, 1 mg	Procedure	HCPCS
J3111	Injection, romosozumab-aqqg, 1 mg	Procedure	HCPCS
J2860	Injection, siltuximab, 10 mg	Procedure	HCPCS
J9320	Injection, streptozocin, 1 g	Procedure	HCPCS
C9049	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
J9269	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
J9328	Injection, temozolomide, 1 mg	Procedure	HCPCS
C9253	Injection, temozolomide, 1mg	Procedure	HCPCS
C9239	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9330	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9340	Injection, thiotepa, 15 mg	Procedure	HCPCS
J3245	Injection, tildrakizumab, 1 mg	Procedure	HCPCS
C9264	Injection, tocilizumab, 1 mg	Procedure	HCPCS
J3262	Injection, tocilizumab, 1 mg	Procedure	HCPCS
J9351	Injection, topotecan, 0.1 mg	Procedure	HCPCS
J9350	Injection, topotecan, 4 mg	Procedure	HCPCS
Q5117	Injection, trastuzumab-anns, biosimilar, (Kanjinti), 10 mg	Procedure	HCPCS
Q5114	Injection, Trastuzumab-dkst, biosimilar, (Ogivri), 10 mg	Procedure	HCPCS
Q5112	Injection, trastuzumab-dttb, biosimilar, (Ontruzant), 10 mg	Procedure	HCPCS
Q5113	Injection, trastuzumab-pkrb, biosimilar, (Herzuma), 10 mg	Procedure	HCPCS
Q5116	Injection, trastuzumab-qyyp, biosimilar, (Trazimera), 10 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
J9356	Injection, trastuzumab, 10 mg and hyaluronidase-oysk	Procedure	HCPCS
J9355	Injection, trastuzumab, excludes biosimilar, 10 mg	Procedure	HCPCS
C9261	Injection, ustekinumab, 1 mg	Procedure	HCPCS
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
J9360	Injection, vinblastine sulfate, 1 mg	Procedure	HCPCS
J9371	Injection, vincristine sulfate liposome, 1 mg	Procedure	HCPCS
J9390	Injection, vinorelbine tartrate, 10 mg	Procedure	HCPCS
58346	Insertion of Heyman capsules for clinical brachytherapy	Procedure	CPT-4
57155	Insertion of uterine tandem and/or vaginal ovoids for clinical brachytherapy	Procedure	CPT-4
57156	Insertion of a vaginal radiation afterloading apparatus for clinical brachytherapy	Procedure	CPT-4
77386	Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; complex	Procedure	CPT-4
77385	Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; simple	Procedure	CPT-4
G6015	Intensity modulated treatment delivery, single or multiple fields/arcs, via narrow spatially and temporally modulated beams, binary, dynamic MLC, per treatment session	Procedure	HCPCS
A4905	Intermittent peritoneal dialysis (ipd) supply kit	Procedure	HCPCS
49411	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), percutaneous, intra-abdominal, intra-pelvic (except prostate), and/or retroperitoneum, single or multiple	Procedure	CPT-4
77778	Interstitial radiation source application, complex, includes supervision, handling, loading of radiation source, when performed	Procedure	CPT-4
77777	Interstitial radiation source application; intermediate	Procedure	CPT-4
77776	Interstitial radiation source application; simple	Procedure	CPT-4
44135	Intestinal allotransplantation; from cadaver donor	Procedure	CPT-4
44136	Intestinal allotransplantation; from living donor	Procedure	CPT-4
G6017	Intra-fraction localization and tracking of target or patient motion during delivery of radiation therapy (e.g., 3D positional tracking, gating, 3D surface tracking), each fraction of treatment	Procedure	HCPCS
77763	Intracavitary radiation source application; complex	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
77762	Intracavitary radiation source application; intermediate	Procedure	CPT-4
77761	Intracavitary radiation source application; simple	Procedure	CPT-4
0190T	Placement of intraocular radiation source applicator (List separately in addition to primary procedure)	Procedure	CPT-3
77425	Intraoperative radiation treatment delivery, electrons, single treatment session	Procedure	CPT-4
77424	Intraoperative radiation treatment delivery, x-ray, single treatment session	Procedure	CPT-4
77469	Intraoperative radiation treatment management	Procedure	CPT-4
A9545	Iodine I-131 tositumomab, therapeutic, per treatment dose	Procedure	HCPCS
E1510	Kidney, dialysate delivery system kidney machine, pump recirculating, air removal system, flowrate meter, power off, heater and temperature control with alarm, IV poles, pressure gauge, concentrate container	Procedure	HCPCS
S2060	Lobar lung transplantation	Procedure	HCPCS
A4735	Local/topical anesthetics for dialysis only	Procedure	HCPCS
S0178	Lomustine, oral, 10 mg	Procedure	HCPCS
C9017	Lomustine, 10 mg	Procedure	HCPCS
G0458	Low dose rate (LDR) prostate brachytherapy services, composite rate	Procedure	HCPCS
32852	Lung transplant, single; with cardiopulmonary bypass	Procedure	CPT-4
32851	Lung transplant, single; without cardiopulmonary bypass	Procedure	CPT-4
32854	Lung transplant, double (bilateral sequential or en bloc); with cardiopulmonary bypass	Procedure	CPT-4
32853	Lung transplant, double (bilateral sequential or en bloc); without cardiopulmonary bypass	Procedure	CPT-4
47136	Liver allotransplantation; heterotopic, partial or whole, from cadaver or living donor, any age	Procedure	CPT-4
47135	Liver allotransplantation, orthotopic, partial or whole, from cadaver or living donor, any age	Procedure	CPT-4
J8600	Melphalan, oral, 2 mg	Procedure	HCPCS
S0108	Mercaptopurine, oral, 50 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
A4913	Miscellaneous dialysis supplies, not otherwise specified	Procedure	HCPCS
J9290	Mitomycin, 20 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J9291	Mitomycin, 40 mg	Procedure	HCPCS
C9432	Mitomycin, 5 mg, brand name	Procedure	HCPCS
J7505	Muromonab-CD3, parenteral, 5 mg	Procedure	HCPCS
J7517	Mycophenolate mofetil, oral, 250 mg	Procedure	HCPCS
K0412	Mycophenolate mofetil, oral, 250 mg (CellCept)	Procedure	HCPCS
77750	Infusion or instillation of radioelement solution (includes 3-month follow-up care)	Procedure	CPT-4
A4910	Non-medical supplies for dialysis, (i.e., scale, scissors, stopwatch, etc.)	Procedure	HCPCS
J9999	Not otherwise classified, antineoplastic drugs	Procedure	HCPCS
C9205	Injection, oxaliplatin, per 5 mg	Procedure	HCPCS
C9431	Paclitaxel, 30 mg, brand name	Procedure	HCPCS
A4653	Peritoneal dialysis catheter anchoring device, belt, each	Procedure	HCPCS
E1634	Peritoneal dialysis clamps, each	Procedure	HCPCS
49412	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), open, intra-abdominal, intrapelvic, and/or retroperitoneum, including image guidance, if performed, single or multiple (List separately in addition to code for primary procedure)	Procedure	CPT-4
41019	Placement of needles, catheters, or other device(s) into the head and/or neck region (percutaneous, transoral, or transnasal) for subsequent interstitial radioelement application	Procedure	CPT-4
55920	Placement of needles or catheters into pelvic organs and/or genitalia (except prostate) for subsequent interstitial radioelement application	Procedure	CPT-4
20555	Placement of needles or catheters into muscle and/or soft tissue for subsequent interstitial radioelement application (at the time of or subsequent to the procedure)	Procedure	CPT-4
19297	Placement of radiotherapy afterloading expandable catheter (single or multichannel) into the breast for interstitial radioelement application following partial mastectomy, includes imaging guidance; concurrent with partial mastectomy (List separately in addition to code for primary procedure)	Procedure	CPT-4
19296	Placement of radiotherapy afterloading expandable catheter (single or multichannel) into the breast for interstitial radioelement application following partial mastectomy, includes imaging guidance; on date separate from partial mastectomy	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
19298	Placement of radiotherapy after loading brachytherapy catheters (multiple tube and button type) into the breast for interstitial radioelement application following (at the time of or subsequent to) partial mastectomy, includes imaging guidance	Procedure	CPT-4
A4870	Plumbing and/or electrical work for home hemodialysis equipment	Procedure	HCPCS
A4914	Preparation kits	Procedure	HCPCS
19294	Preparation of tumor cavity, with placement of a radiation therapy applicator for intraoperative radiation therapy (IORT) concurrent with partial mastectomy (List separately in addition to code for primary procedure)	Procedure	CPT-4
J8999	Prescription drug, oral, chemotherapeutic, NOS	Procedure	HCPCS
E1540	Pressure alarm for hemodialysis, each, replacement	Procedure	HCPCS
S0182	Procarbazine HCl, oral, 50 mg	Procedure	HCPCS
A4802	Protamine sulfate, for hemodialysis, per 50 mg	Procedure	HCPCS
77525	Proton treatment delivery; complex	Procedure	CPT-4
77523	Proton treatment delivery; intermediate	Procedure	CPT-4
77522	Proton treatment delivery; simple, with compensation	Procedure	CPT-4
77520	Proton treatment delivery; simple, without compensation	Procedure	CPT-4
G6005	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 11-19 mev	Procedure	HCPCS
G6006	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 20 mev or greater	Procedure	HCPCS
G6004	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 6-10 mev	Procedure	HCPCS
G6003	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: up to 5 mev	Procedure	HCPCS
G6012	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 6-10 mev	Procedure	HCPCS
G6011	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; up to 5 mev	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
G6013	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 mev	Procedure	HCPCS
G6014	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 20 mev or greater	Procedure	HCPCS
77371	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based	Procedure	CPT-4
77372	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; linear accelerator based	Procedure	CPT-4
77431	Radiation therapy management with complete course of therapy consisting of 1 or 2 fractions only	Procedure	CPT-4
77412	Radiation treatment delivery, => 1 MeV; complex	Procedure	CPT-4
77402	Radiation treatment delivery, => 1 MeV; simple	Procedure	CPT-4
77427	Radiation treatment management, 5 treatments	Procedure	CPT-4
77407	Radiation treatment delivery, => 1 MeV; intermediate	Procedure	CPT-4
77401	Radiation treatment delivery, superficial and/or ortho voltage, per day	Procedure	CPT-4
77404	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 11-19 MeV	Procedure	CPT-4
77406	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 20 MeV or greater	Procedure	CPT-4
77403	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 6-10 MeV	Procedure	CPT-4
77411	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 20 MeV or greater	Procedure	CPT-4
77409	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 11-19 MeV	Procedure	CPT-4
77408	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 6-10 MeV	Procedure	CPT-4
77414	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 MeV	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
77416	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 20 MeV or greater	Procedure	CPT-4
77413	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 6-10 MeV	Procedure	CPT-4
E1630	Reciprocating peritoneal dialysis system	Procedure	HCPCS
77784	Remote afterloading high intensity brachytherapy; over 12 source positions or catheters	Procedure	CPT-4
77781	Remote afterloading high intensity brachytherapy; 1-4 source positions or catheters	Procedure	CPT-4
77782	Remote afterloading high intensity brachytherapy; 5-8 source positions or catheters	Procedure	CPT-4
77783	Remote afterloading high intensity brachytherapy; 9-12 source positions or catheters	Procedure	CPT-4
77787	Remote afterloading high dose rate radionuclide brachytherapy; over 12 channels	Procedure	CPT-4
77785	Remote afterloading high dose rate radionuclide brachytherapy; 1 channel	Procedure	CPT-4
77786	Remote afterloading high dose rate radionuclide brachytherapy; 2-12 channels	Procedure	CPT-4
50360	Renal allotransplantation, implantation of graft; without recipient nephrectomy	Procedure	CPT-4
50365	Renal allotransplantation, implantation of graft; with recipient nephrectomy	Procedure	CPT-4
50366	Renal Homotransplantation, Implantation Of Graft	Procedure	CPT-4
90378	Respiratory syncytial virus, monoclonal antibody, recombinant, for intramuscular use, 50 mg, each	Procedure	CPT-4
50370	Removal of transplanted renal allograft	Procedure	CPT-4
G6009	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 11-19 mev	Procedure	HCPCS
G6010	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 20 mev or greater	Procedure	HCPCS
G6008	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 6-10 mev	Procedure	HCPCS
G6007	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: up to 5 mev	Procedure	HCPCS
E1610	Reverse osmosis water purification system, for hemodialysis	Procedure	HCPCS
A4740	Shunt accessory, for hemodialysis, any type, each	Procedure	HCPCS
S2065	Simultaneous pancreas kidney transplantation	Procedure	HCPCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
Q2043	Sipuleucel-T, minimum of 50 million autologous CD54+ cells activated with PAP-GM-CSF, including leukapheresis and all other preparatory procedures, per infusion	Procedure	HCPCS
C9273	Sipuleucel-T, minimum of 50 million autologous CD54+ cells activated with PAP-GM-CSF, including leukapheresis and all other preparatory procedures, per infusion	Procedure	HCPCS
J7520	Sirolimus, oral, 1 mg	Procedure	HCPCS
C9106	Sirolimus, per 1 mg/ml	Procedure	HCPCS
C9020	Sirolimus tablet, 1 mg	Procedure	HCPCS
S2152	Solid organ(s), complete or segmental, single organ or combination of organs; deceased or living donor(s), procurement, transplantation, and related complications; including: drugs; supplies; hospitalization with outpatient follow-up; medical/surgical, diagnostic, emergency, and rehabilitative services, and the number of days of pre- and posttransplant care in the global definition	Procedure	HCPCS
E1636	Sorbent cartridges, for hemodialysis, per 10	Procedure	HCPCS
77470	Special treatment procedure (eg, total body irradiation, hemibody radiation, per oral or endocavitary irradiation)	Procedure	CPT-4
A4700	Standard dialysate solution, each	Procedure	HCPCS
G6002	Stereoscopic x-ray guidance for localization of target volume for the delivery of radiation therapy	Procedure	HCPCS
77373	Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	Procedure	CPT-4
77435	Stereotactic body radiation therapy, treatment management, per treatment course, to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	Procedure	CPT-4
77432	Stereotactic radiation treatment management of cranial lesion(s) (complete course of treatment consisting of 1 session)	Procedure	CPT-4
A4880	Storage tanks utilized in connection with water purification system, replacement tanks for dialysis	Procedure	HCPCS
77789	Surface application of low dose rate radionuclide source	Procedure	CPT-4
J7508	Tacrolimus, extended release, (Astagraf XL), oral, 0.1 mg	Procedure	HCPCS
J7503	Tacrolimus, extended release, (Envarsus XR), oral, 0.25 mg	Procedure	HCPCS
J7507	Tacrolimus, immediate release, oral, 1 mg	Procedure	HCPCS
J7525	Tacrolimus, parenteral, 5 mg	Procedure	HCPCS
C1086	Temozolomide, 5 mg, temodar	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J8700	Temozolomide, oral, 5 mg	Procedure	HCPCS
C9433	Thiotepa, 15 mg, brand name	Procedure	HCPCS
32701	Thoracic target(s) delineation for stereotactic body radiation therapy (SRS/SBRT), (photon or particle beam), entire course of treatment	Procedure	CPT-4
A4736	Topical anesthetic, for dialysis, per g	Procedure	HCPCS
J8705	Topotecan, oral, 0.25 mg	Procedure	HCPCS
55859	Transperineal placement of needles or catheters into prostate for interstitial radioelement application, with or without cystoscopy	Procedure	CPT-4
E1575	Transducer protectors/fluid barriers, for hemodialysis, any size, per 10	Procedure	HCPCS
55875	Transperineal placement of needles or catheters into prostate for interstitial radioelement application, with or without cystoscopy	Procedure	CPT-4
S2054	Transplantation of multivisceral organs	Procedure	HCPCS
48554	Transplantation of pancreatic allograft	Procedure	CPT-4
S2053	Transplantation of small intestine and liver allografts	Procedure	HCPCS
G9835	Trastuzumab administered within 12 months of diagnosis	Procedure	HCPCS
G9837	Trastuzumab not administered within 12 months of diagnosis	Procedure	HCPCS
A4714	Treated water (deionized, distilled, or reverse osmosis) for peritoneal dialysis, per gallon	Procedure	HCPCS
38240	Hematopoietic progenitor cell (HPC); allogeneic transplantation per donor	Procedure	CPT-4
38243	Hematopoietic progenitor cell (HPC); HPC boost	Procedure	CPT-4
E1580	Unipuncture control system for hemodialysis	Procedure	CPT-4
96549	Unlisted chemotherapy procedure	Procedure	CPT-4
77799	Unlisted procedure, clinical brachytherapy	Procedure	CPT-4
77499	Unlisted procedure, therapeutic radiology treatment management	Procedure	CPT-4
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
A4918	Venous pressure clamp, for hemodialysis, each	Procedure	HCPCS
J9370	Vincristine sulfate, 1 mg	Procedure	HCPCS
J9375	Vincristine sulfate, 2 mg	Procedure	HCPCS
J9380	Vincristine sulfate, 5 mg	Procedure	HCPCS
C9440	Vinorelbine tartrate, brand name, per 10 mg	Procedure	HCPCS
E1625	Water softening system, for hemodialysis	Procedure	HCPCS
A4712	Water, sterile, for injection, per 10 ml	Procedure	HCPCS
E1632	Wearable artificial kidney, each	Procedure	HCPCS
A4719	"Y set" tubing for peritoneal dialysis	Procedure	HCPCS
DW034ZZ	Beam Radiation of Abdomen using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7064ZZ	Beam Radiation of Abdomen Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7066ZZ	Beam Radiation of Abdomen Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7061ZZ	Beam Radiation of Abdomen Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7062ZZ	Beam Radiation of Abdomen Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS
D7063ZZ	Beam Radiation of Abdomen Lymphatics using Electrons	Procedure	ICD-10-PCS
D7060ZZ	Beam Radiation of Abdomen Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7065ZZ	Beam Radiation of Abdomen Lymphatics using Neutrons	Procedure	ICD-10-PCS
DW031ZZ	Beam Radiation of Abdomen using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DG026ZZ	Beam Radiation of Adrenal Glands using Neutron Capture	Procedure	ICD-10-PCS
DG020ZZ	Beam Radiation of Adrenal Glands using Photons <1 MeV	Procedure	ICD-10-PCS
DG022ZZ	Beam Radiation of Adrenal Glands using Photons >10 MeV	Procedure	ICD-10-PCS
DG021ZZ	Beam Radiation of Adrenal Glands using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7044ZZ	Beam Radiation of Axillary Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7046ZZ	Beam Radiation of Axillary Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7040ZZ	Beam Radiation of Axillary Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7042ZZ	Beam Radiation of Axillary Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS
D7041ZZ	Beam Radiation of Axillary Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
D7043ZZ	Beam Radiation of Axillary Lymphatics using Electrons	Procedure	ICD-10-PCS
D7045ZZ	Beam Radiation of Axillary Lymphatics using Neutrons	Procedure	ICD-10-PCS
DF024ZZ	Beam Radiation of Bile Ducts using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DF026ZZ	Beam Radiation of Bile Ducts using Neutron Capture	Procedure	ICD-10-PCS
DF020ZZ	Beam Radiation of Bile Ducts using Photons <1 MeV	Procedure	ICD-10-PCS
DF022ZZ	Beam Radiation of Bile Ducts using Photons >10 MeV	Procedure	ICD-10-PCS
DF021ZZ	Beam Radiation of Bile Ducts using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DT024ZZ	Beam Radiation of Bladder using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DT021ZZ	Beam Radiation of Bladder using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7004ZZ	Beam Radiation of Bone Marrow using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7001ZZ	Beam Radiation of Bone Marrow using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7006ZZ	Beam Radiation of Bone Marrow using Neutron Capture	Procedure	ICD-10-PCS
D7000ZZ	Beam Radiation of Bone Marrow using Photons <1 MeV	Procedure	ICD-10-PCS
D7002ZZ	Beam Radiation of Bone Marrow using Photons >10 MeV	Procedure	ICD-10-PCS
D0004ZZ	Beam Radiation of Brain using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D0014ZZ	Beam Radiation of Brain Stem using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D0016ZZ	Beam Radiation of Brain Stem using Neutron Capture	Procedure	ICD-10-PCS
D0010ZZ	Beam Radiation of Brain Stem using Photons <1 MeV	Procedure	ICD-10-PCS
D0012ZZ	Beam Radiation of Brain Stem using Photons >10 MeV	Procedure	ICD-10-PCS
D0011ZZ	Beam Radiation of Brain Stem using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB014ZZ	Beam Radiation of Bronchus using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB011ZZ	Beam Radiation of Bronchus using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DU014ZZ	Beam Radiation of Cervix using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DU011ZZ	Beam Radiation of Cervix using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DW024ZZ	Beam Radiation of Chest using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB074ZZ	Beam Radiation of Chest Wall using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB076ZZ	Beam Radiation of Chest Wall using Neutron Capture	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DB070ZZ	Beam Radiation of Chest Wall using Photons <1 MeV	Procedure	ICD-10-PCS
DB072ZZ	Beam Radiation of Chest Wall using Photons >10 MeV	Procedure	ICD-10-PCS
DB071ZZ	Beam Radiation of Chest Wall using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DD054ZZ	Beam Radiation of Colon using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB084ZZ	Beam Radiation of Diaphragm using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB086ZZ	Beam Radiation of Diaphragm using Neutron Capture	Procedure	ICD-10-PCS
DB082ZZ	Beam Radiation of Diaphragm using Photons >10 MeV	Procedure	ICD-10-PCS
DB081ZZ	Beam Radiation of Diaphragm using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DD024ZZ	Beam Radiation of Duodenum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD021ZZ	Beam Radiation of Duodenum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9004ZZ	Beam Radiation of Ear using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD004ZZ	Beam Radiation of Esophagus using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD006ZZ	Beam Radiation of Esophagus using Neutron Capture	Procedure	ICD-10-PCS
DD002ZZ	Beam Radiation of Esophagus using Photons >10 MeV	Procedure	ICD-10-PCS
DD001ZZ	Beam Radiation of Esophagus using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D8004ZZ	Beam Radiation of Eye using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP094ZZ	Beam Radiation of Femur using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DF014ZZ	Beam Radiation of Gallbladder using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DF011ZZ	Beam Radiation of Gallbladder using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DF016ZZ	Beam Radiation of Gallbladder using Neutron Capture	Procedure	ICD-10-PCS
DF010ZZ	Beam Radiation of Gallbladder using Photons <1 MeV	Procedure	ICD-10-PCS
DF012ZZ	Beam Radiation of Gallbladder using Photons >10 MeV	Procedure	ICD-10-PCS
D9084ZZ	Beam Radiation of Hard Palate using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9081ZZ	Beam Radiation of Hard Palate using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9086ZZ	Beam Radiation of Hard Palate using Neutron Capture	Procedure	ICD-10-PCS
D9080ZZ	Beam Radiation of Hard Palate using Photons <1 MeV	Procedure	ICD-10-PCS
D9082ZZ	Beam Radiation of Hard Palate using Photons >10 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DW011ZZ	Beam Radiation of Head and Neck using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DW016ZZ	Beam Radiation of Head and Neck using Neutron Capture	Procedure	ICD-10-PCS
DW010ZZ	Beam Radiation of Head and Neck using Photons <1 MeV	Procedure	ICD-10-PCS
DW012ZZ	Beam Radiation of Head and Neck using Photons >10 MeV	Procedure	ICD-10-PCS
DW014ZZ	Beam Radiation of Head and Neck using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DW044ZZ	Beam Radiation of Hemibody using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DW041ZZ	Beam Radiation of Hemibody using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP064ZZ	Beam Radiation of Humerus using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP061ZZ	Beam Radiation of Humerus using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9034ZZ	Beam Radiation of Hypopharynx using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9031ZZ	Beam Radiation of Hypopharynx using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9036ZZ	Beam Radiation of Hypopharynx using Neutron Capture	Procedure	ICD-10-PCS
D9030ZZ	Beam Radiation of Hypopharynx using Photons <1 MeV	Procedure	ICD-10-PCS
D9032ZZ	Beam Radiation of Hypopharynx using Photons >10 MeV	Procedure	ICD-10-PCS
DD044ZZ	Beam Radiation of Ileum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7084ZZ	Beam Radiation of Inguinal Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7086ZZ	Beam Radiation of Inguinal Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7081ZZ	Beam Radiation of Inguinal Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7082ZZ	Beam Radiation of Inguinal Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS
D7080ZZ	Beam Radiation of Inguinal Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7083ZZ	Beam Radiation of Inguinal Lymphatics using Electrons	Procedure	ICD-10-PCS
D7085ZZ	Beam Radiation of Inguinal Lymphatics using Neutrons	Procedure	ICD-10-PCS
DD034ZZ	Beam Radiation of Jejunum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD031ZZ	Beam Radiation of Jejunum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DT004ZZ	Beam Radiation of Kidney using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DT001ZZ	Beam Radiation of Kidney using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D90B4ZZ	Beam Radiation of Larynx using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D90B1ZZ	Beam Radiation of Larynx using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DM004ZZ	Beam Radiation of Left Breast using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DM001ZZ	Beam Radiation of Left Breast using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DM006ZZ	Beam Radiation of Left Breast using Neutron Capture	Procedure	ICD-10-PCS
DM000ZZ	Beam Radiation of Left Breast using Photons <1 MeV	Procedure	ICD-10-PCS
DM002ZZ	Beam Radiation of Left Breast using Photons >10 MeV	Procedure	ICD-10-PCS
DF004ZZ	Beam Radiation of Liver using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB024ZZ	Beam Radiation of Lung using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP034ZZ	Beam Radiation of Mandible using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP031ZZ	Beam Radiation of Mandible using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP024ZZ	Beam Radiation of Maxilla using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP021ZZ	Beam Radiation of Maxilla using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB064ZZ	Beam Radiation of Mediastinum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB061ZZ	Beam Radiation of Mediastinum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB066ZZ	Beam Radiation of Mediastinum using Neutron Capture	Procedure	ICD-10-PCS
DB060ZZ	Beam Radiation of Mediastinum using Photons <1 MeV	Procedure	ICD-10-PCS
DB062ZZ	Beam Radiation of Mediastinum using Photons >10 MeV	Procedure	ICD-10-PCS
D9044ZZ	Beam Radiation of Mouth using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D90D4ZZ	Beam Radiation of Nasopharynx using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D90D1ZZ	Beam Radiation of Nasopharynx using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D90D6ZZ	Beam Radiation of Nasopharynx using Neutron Capture	Procedure	ICD-10-PCS
D90D0ZZ	Beam Radiation of Nasopharynx using Photons <1 MeV	Procedure	ICD-10-PCS
D90D2ZZ	Beam Radiation of Nasopharynx using Photons >10 MeV	Procedure	ICD-10-PCS
D7034ZZ	Beam Radiation of Neck Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7036ZZ	Beam Radiation of Neck Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7030ZZ	Beam Radiation of Neck Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7032ZZ	Beam Radiation of Neck Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D7031ZZ	Beam Radiation of Neck Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7033ZZ	Beam Radiation of Neck Lymphatics using Electrons	Procedure	ICD-10-PCS
D9014ZZ	Beam Radiation of Nose using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DW033ZZ	Beam Radiation of Abdomen using Electrons	Procedure	ICD-10-PCS
DW036ZZ	Beam Radiation of Abdomen using Neutron Capture	Procedure	ICD-10-PCS
DW035ZZ	Beam Radiation of Abdomen using Neutrons	Procedure	ICD-10-PCS
DW030ZZ	Beam Radiation of Abdomen using Photons <1 MeV	Procedure	ICD-10-PCS
DW032ZZ	Beam Radiation of Abdomen using Photons >10 MeV	Procedure	ICD-10-PCS
DG023ZZ	Beam Radiation of Adrenal Glands using Electrons	Procedure	ICD-10-PCS
DG025ZZ	Beam Radiation of Adrenal Glands using Neutrons	Procedure	ICD-10-PCS
DF023ZZ	Beam Radiation of Bile Ducts using Electrons	Procedure	ICD-10-PCS
DF025ZZ	Beam Radiation of Bile Ducts using Neutrons	Procedure	ICD-10-PCS
DT023ZZ	Beam Radiation of Bladder using Electrons	Procedure	ICD-10-PCS
DT026ZZ	Beam Radiation of Bladder using Neutron Capture	Procedure	ICD-10-PCS
DT025ZZ	Beam Radiation of Bladder using Neutrons	Procedure	ICD-10-PCS
DT020ZZ	Beam Radiation of Bladder using Photons <1 MeV	Procedure	ICD-10-PCS
DT022ZZ	Beam Radiation of Bladder using Photons >10 MeV	Procedure	ICD-10-PCS
D7003ZZ	Beam Radiation of Bone Marrow using Electrons	Procedure	ICD-10-PCS
D7005ZZ	Beam Radiation of Bone Marrow using Neutrons	Procedure	ICD-10-PCS
D0013ZZ	Beam Radiation of Brain Stem using Electrons	Procedure	ICD-10-PCS
D0015ZZ	Beam Radiation of Brain Stem using Neutrons	Procedure	ICD-10-PCS
D0003ZZ	Beam Radiation of Brain using Electrons	Procedure	ICD-10-PCS
D0006ZZ	Beam Radiation of Brain using Neutron Capture	Procedure	ICD-10-PCS
D0005ZZ	Beam Radiation of Brain using Neutrons	Procedure	ICD-10-PCS
D0000ZZ	Beam Radiation of Brain using Photons <1 MeV	Procedure	ICD-10-PCS
D0002ZZ	Beam Radiation of Brain using Photons >10 MeV	Procedure	ICD-10-PCS
D0001ZZ	Beam Radiation of Brain using Photons 1 - 10 MeV	Procedure	ICD-10-PCS



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DB013ZZ	Beam Radiation of Bronchus using Electrons	Procedure	ICD-10-PCS
DB016ZZ	Beam Radiation of Bronchus using Neutron Capture	Procedure	ICD-10-PCS
DB015ZZ	Beam Radiation of Bronchus using Neutrons	Procedure	ICD-10-PCS
DB010ZZ	Beam Radiation of Bronchus using Photons <1 MeV	Procedure	ICD-10-PCS
DB012ZZ	Beam Radiation of Bronchus using Photons >10 MeV	Procedure	ICD-10-PCS
DU013ZZ	Beam Radiation of Cervix using Electrons	Procedure	ICD-10-PCS
DU016ZZ	Beam Radiation of Cervix using Neutron Capture	Procedure	ICD-10-PCS
DU015ZZ	Beam Radiation of Cervix using Neutrons	Procedure	ICD-10-PCS
DU010ZZ	Beam Radiation of Cervix using Photons <1 MeV	Procedure	ICD-10-PCS
DU012ZZ	Beam Radiation of Cervix using Photons >10 MeV	Procedure	ICD-10-PCS
DW023ZZ	Beam Radiation of Chest using Electrons	Procedure	ICD-10-PCS
DW026ZZ	Beam Radiation of Chest using Neutron Capture	Procedure	ICD-10-PCS
DW025ZZ	Beam Radiation of Chest using Neutrons	Procedure	ICD-10-PCS
DW020ZZ	Beam Radiation of Chest using Photons <1 MeV	Procedure	ICD-10-PCS
DW022ZZ	Beam Radiation of Chest using Photons >10 MeV	Procedure	ICD-10-PCS
DW021ZZ	Beam Radiation of Chest using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB073ZZ	Beam Radiation of Chest Wall using Electrons	Procedure	ICD-10-PCS
DB075ZZ	Beam Radiation of Chest Wall using Neutrons	Procedure	ICD-10-PCS
DD053ZZ	Beam Radiation of Colon using Electrons	Procedure	ICD-10-PCS
DD056ZZ	Beam Radiation of Colon using Neutron Capture	Procedure	ICD-10-PCS
DD055ZZ	Beam Radiation of Colon using Neutrons	Procedure	ICD-10-PCS
DD050ZZ	Beam Radiation of Colon using Photons <1 MeV	Procedure	ICD-10-PCS
DD052ZZ	Beam Radiation of Colon using Photons >10 MeV	Procedure	ICD-10-PCS
DD051ZZ	Beam Radiation of Colon using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB083ZZ	Beam Radiation of Diaphragm using Electrons	Procedure	ICD-10-PCS
DB085ZZ	Beam Radiation of Diaphragm using Neutrons	Procedure	ICD-10-PCS
DB080ZZ	Beam Radiation of Diaphragm using Photons <1 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
DD023ZZ	Beam Radiation of Duodenum using Electrons	Procedure	ICD-10-PCS
DD026ZZ	Beam Radiation of Duodenum using Neutron Capture	Procedure	ICD-10-PCS
DD025ZZ	Beam Radiation of Duodenum using Neutrons	Procedure	ICD-10-PCS
DD020ZZ	Beam Radiation of Duodenum using Photons <1 MeV	Procedure	ICD-10-PCS
DD022ZZ	Beam Radiation of Duodenum using Photons >10 MeV	Procedure	ICD-10-PCS
D9003ZZ	Beam Radiation of Ear using Electrons	Procedure	ICD-10-PCS
D9005ZZ	Beam Radiation of Ear using Neutrons	Procedure	ICD-10-PCS
D9000ZZ	Beam Radiation of Ear using Photons <1 MeV	Procedure	ICD-10-PCS
DD003ZZ	Beam Radiation of Esophagus using Electrons	Procedure	ICD-10-PCS
DD005ZZ	Beam Radiation of Esophagus using Neutrons	Procedure	ICD-10-PCS
DD000ZZ	Beam Radiation of Esophagus using Photons <1 MeV	Procedure	ICD-10-PCS
D8003ZZ	Beam Radiation of Eye using Electrons	Procedure	ICD-10-PCS
D8005ZZ	Beam Radiation of Eye using Neutrons	Procedure	ICD-10-PCS
D8000ZZ	Beam Radiation of Eye using Photons <1 MeV	Procedure	ICD-10-PCS
DP093ZZ	Beam Radiation of Femur using Electrons	Procedure	ICD-10-PCS
DP096ZZ	Beam Radiation of Femur using Neutron Capture	Procedure	ICD-10-PCS
DP095ZZ	Beam Radiation of Femur using Neutrons	Procedure	ICD-10-PCS
DP090ZZ	Beam Radiation of Femur using Photons <1 MeV	Procedure	ICD-10-PCS
DP092ZZ	Beam Radiation of Femur using Photons >10 MeV	Procedure	ICD-10-PCS
DP091ZZ	Beam Radiation of Femur using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DF013ZZ	Beam Radiation of Gallbladder using Electrons	Procedure	ICD-10-PCS
DF015ZZ	Beam Radiation of Gallbladder using Neutrons	Procedure	ICD-10-PCS
D9083ZZ	Beam Radiation of Hard Palate using Electrons	Procedure	ICD-10-PCS
D9085ZZ	Beam Radiation of Hard Palate using Neutrons	Procedure	ICD-10-PCS
DW013ZZ	Beam Radiation of Head and Neck using Electrons	Procedure	ICD-10-PCS
DW015ZZ	Beam Radiation of Head and Neck using Neutrons	Procedure	ICD-10-PCS
DW043ZZ	Beam Radiation of Hemibody using Electrons	Procedure	ICD-10-PCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DW046ZZ	Beam Radiation of Hemibody using Neutron Capture	Procedure	ICD-10-PCS
DW045ZZ	Beam Radiation of Hemibody using Neutrons	Procedure	ICD-10-PCS
DW040ZZ	Beam Radiation of Hemibody using Photons <1 MeV	Procedure	ICD-10-PCS
DW042ZZ	Beam Radiation of Hemibody using Photons >10 MeV	Procedure	ICD-10-PCS
DP063ZZ	Beam Radiation of Humerus using Electrons	Procedure	ICD-10-PCS
DP066ZZ	Beam Radiation of Humerus using Neutron Capture	Procedure	ICD-10-PCS
DP065ZZ	Beam Radiation of Humerus using Neutrons	Procedure	ICD-10-PCS
DP060ZZ	Beam Radiation of Humerus using Photons <1 MeV	Procedure	ICD-10-PCS
DP062ZZ	Beam Radiation of Humerus using Photons >10 MeV	Procedure	ICD-10-PCS
D9033ZZ	Beam Radiation of Hypopharynx using Electrons	Procedure	ICD-10-PCS
D9035ZZ	Beam Radiation of Hypopharynx using Neutrons	Procedure	ICD-10-PCS
DD043ZZ	Beam Radiation of Ileum using Electrons	Procedure	ICD-10-PCS
DD046ZZ	Beam Radiation of Ileum using Neutron Capture	Procedure	ICD-10-PCS
DD045ZZ	Beam Radiation of Ileum using Neutrons	Procedure	ICD-10-PCS
DD040ZZ	Beam Radiation of Ileum using Photons <1 MeV	Procedure	ICD-10-PCS
DD042ZZ	Beam Radiation of Ileum using Photons >10 MeV	Procedure	ICD-10-PCS
DD041ZZ	Beam Radiation of Ileum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DD033ZZ	Beam Radiation of Jejunum using Electrons	Procedure	ICD-10-PCS
DD036ZZ	Beam Radiation of Jejunum using Neutron Capture	Procedure	ICD-10-PCS
DD035ZZ	Beam Radiation of Jejunum using Neutrons	Procedure	ICD-10-PCS
DD030ZZ	Beam Radiation of Jejunum using Photons <1 MeV	Procedure	ICD-10-PCS
DD032ZZ	Beam Radiation of Jejunum using Photons >10 MeV	Procedure	ICD-10-PCS
DT003ZZ	Beam Radiation of Kidney using Electrons	Procedure	ICD-10-PCS
DT006ZZ	Beam Radiation of Kidney using Neutron Capture	Procedure	ICD-10-PCS
DT005ZZ	Beam Radiation of Kidney using Neutrons	Procedure	ICD-10-PCS
DT000ZZ	Beam Radiation of Kidney using Photons <1 MeV	Procedure	ICD-10-PCS
DT002ZZ	Beam Radiation of Kidney using Photons >10 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D90B3ZZ	Beam Radiation of Larynx using Electrons	Procedure	ICD-10-PCS
D90B6ZZ	Beam Radiation of Larynx using Neutron Capture	Procedure	ICD-10-PCS
D90B5ZZ	Beam Radiation of Larynx using Neutrons	Procedure	ICD-10-PCS
D90B0ZZ	Beam Radiation of Larynx using Photons <1 MeV	Procedure	ICD-10-PCS
D90B2ZZ	Beam Radiation of Larynx using Photons >10 MeV	Procedure	ICD-10-PCS
DM003ZZ	Beam Radiation of Left Breast using Electrons	Procedure	ICD-10-PCS
DM005ZZ	Beam Radiation of Left Breast using Neutrons	Procedure	ICD-10-PCS
DF003ZZ	Beam Radiation of Liver using Electrons	Procedure	ICD-10-PCS
DF006ZZ	Beam Radiation of Liver using Neutron Capture	Procedure	ICD-10-PCS
DF005ZZ	Beam Radiation of Liver using Neutrons	Procedure	ICD-10-PCS
DF000ZZ	Beam Radiation of Liver using Photons <1 MeV	Procedure	ICD-10-PCS
DF002ZZ	Beam Radiation of Liver using Photons >10 MeV	Procedure	ICD-10-PCS
DF001ZZ	Beam Radiation of Liver using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB023ZZ	Beam Radiation of Lung using Electrons	Procedure	ICD-10-PCS
DB026ZZ	Beam Radiation of Lung using Neutron Capture	Procedure	ICD-10-PCS
DB025ZZ	Beam Radiation of Lung using Neutrons	Procedure	ICD-10-PCS
DB020ZZ	Beam Radiation of Lung using Photons <1 MeV	Procedure	ICD-10-PCS
DB022ZZ	Beam Radiation of Lung using Photons >10 MeV	Procedure	ICD-10-PCS
DB021ZZ	Beam Radiation of Lung using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP033ZZ	Beam Radiation of Mandible using Electrons	Procedure	ICD-10-PCS
DP036ZZ	Beam Radiation of Mandible using Neutron Capture	Procedure	ICD-10-PCS
DP035ZZ	Beam Radiation of Mandible using Neutrons	Procedure	ICD-10-PCS
DP030ZZ	Beam Radiation of Mandible using Photons <1 MeV	Procedure	ICD-10-PCS
DP032ZZ	Beam Radiation of Mandible using Photons >10 MeV	Procedure	ICD-10-PCS
DP023ZZ	Beam Radiation of Maxilla using Electrons	Procedure	ICD-10-PCS
DP026ZZ	Beam Radiation of Maxilla using Neutron Capture	Procedure	ICD-10-PCS
DP025ZZ	Beam Radiation of Maxilla using Neutrons	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DP020ZZ	Beam Radiation of Maxilla using Photons <1 MeV	Procedure	ICD-10-PCS
DP022ZZ	Beam Radiation of Maxilla using Photons >10 MeV	Procedure	ICD-10-PCS
DB063ZZ	Beam Radiation of Mediastinum using Electrons	Procedure	ICD-10-PCS
DB065ZZ	Beam Radiation of Mediastinum using Neutrons	Procedure	ICD-10-PCS
D9043ZZ	Beam Radiation of Mouth using Electrons	Procedure	ICD-10-PCS
D9046ZZ	Beam Radiation of Mouth using Neutron Capture	Procedure	ICD-10-PCS
D9045ZZ	Beam Radiation of Mouth using Neutrons	Procedure	ICD-10-PCS
D9040ZZ	Beam Radiation of Mouth using Photons <1 MeV	Procedure	ICD-10-PCS
D9042ZZ	Beam Radiation of Mouth using Photons >10 MeV	Procedure	ICD-10-PCS
D9041ZZ	Beam Radiation of Mouth using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D90D3ZZ	Beam Radiation of Nasopharynx using Electrons	Procedure	ICD-10-PCS
D90D5ZZ	Beam Radiation of Nasopharynx using Neutrons	Procedure	ICD-10-PCS
D7035ZZ	Beam Radiation of Neck Lymphatics using Neutrons	Procedure	ICD-10-PCS
D9013ZZ	Beam Radiation of Nose using Electrons	Procedure	ICD-10-PCS
D9016ZZ	Beam Radiation of Nose using Neutron Capture	Procedure	ICD-10-PCS
D9015ZZ	Beam Radiation of Nose using Neutrons	Procedure	ICD-10-PCS
D9010ZZ	Beam Radiation of Nose using Photons <1 MeV	Procedure	ICD-10-PCS
D9012ZZ	Beam Radiation of Nose using Photons >10 MeV	Procedure	ICD-10-PCS
D9011ZZ	Beam Radiation of Nose using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D90F3ZZ	Beam Radiation of Oropharynx using Electrons	Procedure	ICD-10-PCS
D90F5ZZ	Beam Radiation of Oropharynx using Neutrons	Procedure	ICD-10-PCS
DPOC3ZZ	Beam Radiation of Other Bone using Electrons	Procedure	ICD-10-PCS
DPOC5ZZ	Beam Radiation of Other Bone using Neutrons	Procedure	ICD-10-PCS
DU003ZZ	Beam Radiation of Ovary using Electrons	Procedure	ICD-10-PCS
DU006ZZ	Beam Radiation of Ovary using Neutron Capture	Procedure	ICD-10-PCS
DU005ZZ	Beam Radiation of Ovary using Neutrons	Procedure	ICD-10-PCS
DU000ZZ	Beam Radiation of Ovary using Photons <1 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DU002ZZ	Beam Radiation of Ovary using Photons >10 MeV	Procedure	ICD-10-PCS
DU001ZZ	Beam Radiation of Ovary using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DF033ZZ	Beam Radiation of Pancreas using Electrons	Procedure	ICD-10-PCS
DF036ZZ	Beam Radiation of Pancreas using Neutron Capture	Procedure	ICD-10-PCS
DF035ZZ	Beam Radiation of Pancreas using Neutrons	Procedure	ICD-10-PCS
DF030ZZ	Beam Radiation of Pancreas using Photons <1 MeV	Procedure	ICD-10-PCS
DF032ZZ	Beam Radiation of Pancreas using Photons >10 MeV	Procedure	ICD-10-PCS
DP083ZZ	Beam Radiation of Pelvic Bones using Electrons	Procedure	ICD-10-PCS
DP085ZZ	Beam Radiation of Pelvic Bones using Neutrons	Procedure	ICD-10-PCS
DW063ZZ	Beam Radiation of Pelvic Region using Electrons	Procedure	ICD-10-PCS
DW065ZZ	Beam Radiation of Pelvic Region using Neutrons	Procedure	ICD-10-PCS
DG013ZZ	Beam Radiation of Pineal Body using Electrons	Procedure	ICD-10-PCS
DG015ZZ	Beam Radiation of Pineal Body using Neutrons	Procedure	ICD-10-PCS
DG005ZZ	Beam Radiation of Pituitary Gland using Neutrons	Procedure	ICD-10-PCS
DB053ZZ	Beam Radiation of Pleura using Electrons	Procedure	ICD-10-PCS
DB056ZZ	Beam Radiation of Pleura using Neutron Capture	Procedure	ICD-10-PCS
DB055ZZ	Beam Radiation of Pleura using Neutrons	Procedure	ICD-10-PCS
DB050ZZ	Beam Radiation of Pleura using Photons <1 MeV	Procedure	ICD-10-PCS
DB052ZZ	Beam Radiation of Pleura using Photons >10 MeV	Procedure	ICD-10-PCS
DV003ZZ	Beam Radiation of Prostate using Electrons	Procedure	ICD-10-PCS
DV006ZZ	Beam Radiation of Prostate using Neutron Capture	Procedure	ICD-10-PCS
DV005ZZ	Beam Radiation of Prostate using Neutrons	Procedure	ICD-10-PCS
DV000ZZ	Beam Radiation of Prostate using Photons <1 MeV	Procedure	ICD-10-PCS
DV002ZZ	Beam Radiation of Prostate using Photons >10 MeV	Procedure	ICD-10-PCS
DP073ZZ	Beam Radiation of Radius/Ulna using Electrons	Procedure	ICD-10-PCS
DP075ZZ	Beam Radiation of Radius/Ulna using Neutrons	Procedure	ICD-10-PCS
DD073ZZ	Beam Radiation of Rectum using Electrons	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD076ZZ	Beam Radiation of Rectum using Neutron Capture	Procedure	ICD-10-PCS
DD075ZZ	Beam Radiation of Rectum using Neutrons	Procedure	ICD-10-PCS
DD070ZZ	Beam Radiation of Rectum using Photons <1 MeV	Procedure	ICD-10-PCS
DD072ZZ	Beam Radiation of Rectum using Photons >10 MeV	Procedure	ICD-10-PCS
DP053ZZ	Beam Radiation of Rib(s) using Electrons	Procedure	ICD-10-PCS
DP056ZZ	Beam Radiation of Rib(s) using Neutron Capture	Procedure	ICD-10-PCS
DP055ZZ	Beam Radiation of Rib(s) using Neutrons	Procedure	ICD-10-PCS
DP050ZZ	Beam Radiation of Rib(s) using Photons <1 MeV	Procedure	ICD-10-PCS
DP052ZZ	Beam Radiation of Rib(s) using Photons >10 MeV	Procedure	ICD-10-PCS
DP051ZZ	Beam Radiation of Rib(s) using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DM013ZZ	Beam Radiation of Right Breast using Electrons	Procedure	ICD-10-PCS
DM015ZZ	Beam Radiation of Right Breast using Neutrons	Procedure	ICD-10-PCS
D9065ZZ	Beam Radiation of Salivary Glands using Neutrons	Procedure	ICD-10-PCS
D9073ZZ	Beam Radiation of Sinuses using Electrons	Procedure	ICD-10-PCS
D9076ZZ	Beam Radiation of Sinuses using Neutron Capture	Procedure	ICD-10-PCS
D9075ZZ	Beam Radiation of Sinuses using Neutrons	Procedure	ICD-10-PCS
D9070ZZ	Beam Radiation of Sinuses using Photons <1 MeV	Procedure	ICD-10-PCS
D9072ZZ	Beam Radiation of Sinuses using Photons >10 MeV	Procedure	ICD-10-PCS
DP003ZZ	Beam Radiation of Skull using Electrons	Procedure	ICD-10-PCS
DP006ZZ	Beam Radiation of Skull using Neutron Capture	Procedure	ICD-10-PCS
DP005ZZ	Beam Radiation of Skull using Neutrons	Procedure	ICD-10-PCS
DP000ZZ	Beam Radiation of Skull using Photons <1 MeV	Procedure	ICD-10-PCS
DP002ZZ	Beam Radiation of Skull using Photons >10 MeV	Procedure	ICD-10-PCS
DP001ZZ	Beam Radiation of Skull using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9093ZZ	Beam Radiation of Soft Palate using Electrons	Procedure	ICD-10-PCS
D9095ZZ	Beam Radiation of Soft Palate using Neutrons	Procedure	ICD-10-PCS
D0063ZZ	Beam Radiation of Spinal Cord using Electrons	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D0065ZZ	Beam Radiation of Spinal Cord using Neutrons	Procedure	ICD-10-PCS
D7023ZZ	Beam Radiation of Spleen using Electrons	Procedure	ICD-10-PCS
D7026ZZ	Beam Radiation of Spleen using Neutron Capture	Procedure	ICD-10-PCS
D7025ZZ	Beam Radiation of Spleen using Neutrons	Procedure	ICD-10-PCS
D7020ZZ	Beam Radiation of Spleen using Photons <1 MeV	Procedure	ICD-10-PCS
D7022ZZ	Beam Radiation of Spleen using Photons >10 MeV	Procedure	ICD-10-PCS
DP043ZZ	Beam Radiation of Sternum using Electrons	Procedure	ICD-10-PCS
DP046ZZ	Beam Radiation of Sternum using Neutron Capture	Procedure	ICD-10-PCS
DP045ZZ	Beam Radiation of Sternum using Neutrons	Procedure	ICD-10-PCS
DP040ZZ	Beam Radiation of Sternum using Photons <1 MeV	Procedure	ICD-10-PCS
DP042ZZ	Beam Radiation of Sternum using Photons >10 MeV	Procedure	ICD-10-PCS
DD013ZZ	Beam Radiation of Stomach using Electrons	Procedure	ICD-10-PCS
DD016ZZ	Beam Radiation of Stomach using Neutron Capture	Procedure	ICD-10-PCS
DD015ZZ	Beam Radiation of Stomach using Neutrons	Procedure	ICD-10-PCS
DD010ZZ	Beam Radiation of Stomach using Photons <1 MeV	Procedure	ICD-10-PCS
DD012ZZ	Beam Radiation of Stomach using Photons >10 MeV	Procedure	ICD-10-PCS
DV013ZZ	Beam Radiation of Testis using Electrons	Procedure	ICD-10-PCS
DV016ZZ	Beam Radiation of Testis using Neutron Capture	Procedure	ICD-10-PCS
DV015ZZ	Beam Radiation of Testis using Neutrons	Procedure	ICD-10-PCS
DV010ZZ	Beam Radiation of Testis using Photons <1 MeV	Procedure	ICD-10-PCS
DV012ZZ	Beam Radiation of Testis using Photons >10 MeV	Procedure	ICD-10-PCS
D7013ZZ	Beam Radiation of Thymus using Electrons	Procedure	ICD-10-PCS
D7016ZZ	Beam Radiation of Thymus using Neutron Capture	Procedure	ICD-10-PCS
D7015ZZ	Beam Radiation of Thymus using Neutrons	Procedure	ICD-10-PCS
D7010ZZ	Beam Radiation of Thymus using Photons <1 MeV	Procedure	ICD-10-PCS
D7012ZZ	Beam Radiation of Thymus using Photons >10 MeV	Procedure	ICD-10-PCS
DG053ZZ	Beam Radiation of Thyroid using Electrons	Procedure	ICD-10-PCS



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Code	Description	Code	
		Category	Code Type
DG056ZZ	Beam Radiation of Thyroid using Neutron Capture	Procedure	ICD-10-PCS
DG055ZZ	Beam Radiation of Thyroid using Neutrons	Procedure	ICD-10-PCS
DG050ZZ	Beam Radiation of Thyroid using Photons <1 MeV	Procedure	ICD-10-PCS
DG052ZZ	Beam Radiation of Thyroid using Photons >10 MeV	Procedure	ICD-10-PCS
DPOB3ZZ	Beam Radiation of Tibia/Fibula using Electrons	Procedure	ICD-10-PCS
DPOB5ZZ	Beam Radiation of Tibia/Fibula using Neutrons	Procedure	ICD-10-PCS
D9053ZZ	Beam Radiation of Tongue using Electrons	Procedure	ICD-10-PCS
D9056ZZ	Beam Radiation of Tongue using Neutron Capture	Procedure	ICD-10-PCS
D9055ZZ	Beam Radiation of Tongue using Neutrons	Procedure	ICD-10-PCS
D9050ZZ	Beam Radiation of Tongue using Photons <1 MeV	Procedure	ICD-10-PCS
D9052ZZ	Beam Radiation of Tongue using Photons >10 MeV	Procedure	ICD-10-PCS
DB003ZZ	Beam Radiation of Trachea using Electrons	Procedure	ICD-10-PCS
DB006ZZ	Beam Radiation of Trachea using Neutron Capture	Procedure	ICD-10-PCS
DB005ZZ	Beam Radiation of Trachea using Neutrons	Procedure	ICD-10-PCS
DB000ZZ	Beam Radiation of Trachea using Photons <1 MeV	Procedure	ICD-10-PCS
DB002ZZ	Beam Radiation of Trachea using Photons >10 MeV	Procedure	ICD-10-PCS
DT013ZZ	Beam Radiation of Ureter using Electrons	Procedure	ICD-10-PCS
DT016ZZ	Beam Radiation of Ureter using Neutron Capture	Procedure	ICD-10-PCS
DT015ZZ	Beam Radiation of Ureter using Neutrons	Procedure	ICD-10-PCS
DT010ZZ	Beam Radiation of Ureter using Photons <1 MeV	Procedure	ICD-10-PCS
DT012ZZ	Beam Radiation of Ureter using Photons >10 MeV	Procedure	ICD-10-PCS
DT033ZZ	Beam Radiation of Urethra using Electrons	Procedure	ICD-10-PCS
DT036ZZ	Beam Radiation of Urethra using Neutron Capture	Procedure	ICD-10-PCS
DT035ZZ	Beam Radiation of Urethra using Neutrons	Procedure	ICD-10-PCS
DT030ZZ	Beam Radiation of Urethra using Photons <1 MeV	Procedure	ICD-10-PCS
DT032ZZ	Beam Radiation of Urethra using Photons >10 MeV	Procedure	ICD-10-PCS
DU023ZZ	Beam Radiation of Uterus using Electrons	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DU026ZZ	Beam Radiation of Uterus using Neutron Capture	Procedure	ICD-10-PCS
DU025ZZ	Beam Radiation of Uterus using Neutrons	Procedure	ICD-10-PCS
DU020ZZ	Beam Radiation of Uterus using Photons <1 MeV	Procedure	ICD-10-PCS
DU022ZZ	Beam Radiation of Uterus using Photons >10 MeV	Procedure	ICD-10-PCS
DW053ZZ	Beam Radiation of Whole Body using Electrons	Procedure	ICD-10-PCS
DW055ZZ	Beam Radiation of Whole Body using Neutrons	Procedure	ICD-10-PCS
D90F4ZZ	Beam Radiation of Oropharynx using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D90F6ZZ	Beam Radiation of Oropharynx using Neutron Capture	Procedure	ICD-10-PCS
D90F0ZZ	Beam Radiation of Oropharynx using Photons <1 MeV	Procedure	ICD-10-PCS
D90F2ZZ	Beam Radiation of Oropharynx using Photons >10 MeV	Procedure	ICD-10-PCS
D90F1ZZ	Beam Radiation of Oropharynx using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DPOC4ZZ	Beam Radiation of Other Bone using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DPOC6ZZ	Beam Radiation of Other Bone using Neutron Capture	Procedure	ICD-10-PCS
DPOC0ZZ	Beam Radiation of Other Bone using Photons <1 MeV	Procedure	ICD-10-PCS
DPOC2ZZ	Beam Radiation of Other Bone using Photons >10 MeV	Procedure	ICD-10-PCS
DPOC1ZZ	Beam Radiation of Other Bone using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DU004ZZ	Beam Radiation of Ovary using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DF034ZZ	Beam Radiation of Pancreas using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DF031ZZ	Beam Radiation of Pancreas using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DG046ZZ	Beam Radiation of Parathyroid Glands using Neutron Capture	Procedure	ICD-10-PCS
DG042ZZ	Beam Radiation of Parathyroid Glands using Photons >10 MeV	Procedure	ICD-10-PCS
DG043ZZ	Beam Radiation of Parathyroid Glands using Electrons	Procedure	ICD-10-PCS
DG040ZZ	Beam Radiation of Parathyroid Glands using Photons <1 MeV	Procedure	ICD-10-PCS
DG045ZZ	Beam Radiation of Parathyroid Glands using Neutrons	Procedure	ICD-10-PCS
DG041ZZ	Beam Radiation of Parathyroid Glands using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP084ZZ	Beam Radiation of Pelvic Bones using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP086ZZ	Beam Radiation of Pelvic Bones using Neutron Capture	Procedure	ICD-10-PCS

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Code	Description	Code	
		Category	Code Type
DP082ZZ	Beam Radiation of Pelvic Bones using Photons >10 MeV	Procedure	ICD-10-PCS
DP081ZZ	Beam Radiation of Pelvic Bones using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP080ZZ	Beam Radiation of Pelvic Bones using Photons <1 MeV	Procedure	ICD-10-PCS
DW064ZZ	Beam Radiation of Pelvic Region using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DW066ZZ	Beam Radiation of Pelvic Region using Neutron Capture	Procedure	ICD-10-PCS
DW060ZZ	Beam Radiation of Pelvic Region using Photons <1 MeV	Procedure	ICD-10-PCS
DW062ZZ	Beam Radiation of Pelvic Region using Photons >10 MeV	Procedure	ICD-10-PCS
DW061ZZ	Beam Radiation of Pelvic Region using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7071ZZ	Beam Radiation of Pelvis Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7074ZZ	Beam Radiation of Pelvis Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7076ZZ	Beam Radiation of Pelvis Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7070ZZ	Beam Radiation of Pelvis Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7072ZZ	Beam Radiation of Pelvis Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS
D7073ZZ	Beam Radiation of Pelvis Lymphatics using Electrons	Procedure	ICD-10-PCS
D7075ZZ	Beam Radiation of Pelvis Lymphatics using Neutrons	Procedure	ICD-10-PCS
D0074ZZ	Beam Radiation of Peripheral Nerve using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D0076ZZ	Beam Radiation of Peripheral Nerve using Neutron Capture	Procedure	ICD-10-PCS
D0070ZZ	Beam Radiation of Peripheral Nerve using Photons <1 MeV	Procedure	ICD-10-PCS
D0073ZZ	Beam Radiation of Peripheral Nerve using Electrons	Procedure	ICD-10-PCS
D0075ZZ	Beam Radiation of Peripheral Nerve using Neutrons	Procedure	ICD-10-PCS
DG011ZZ	Beam Radiation of Pineal Body using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DG016ZZ	Beam Radiation of Pineal Body using Neutron Capture	Procedure	ICD-10-PCS
DG010ZZ	Beam Radiation of Pineal Body using Photons <1 MeV	Procedure	ICD-10-PCS
DG012ZZ	Beam Radiation of Pineal Body using Photons >10 MeV	Procedure	ICD-10-PCS
DG006ZZ	Beam Radiation of Pituitary Gland using Neutron Capture	Procedure	ICD-10-PCS
DG000ZZ	Beam Radiation of Pituitary Gland using Photons <1 MeV	Procedure	ICD-10-PCS
DG002ZZ	Beam Radiation of Pituitary Gland using Photons >10 MeV	Procedure	ICD-10-PCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DG001ZZ	Beam Radiation of Pituitary Gland using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DG003ZZ	Beam Radiation of Pituitary Gland using Electrons	Procedure	ICD-10-PCS
DB054ZZ	Beam Radiation of Pleura using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB051ZZ	Beam Radiation of Pleura using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DV004ZZ	Beam Radiation of Prostate using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DV001ZZ	Beam Radiation of Prostate using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP074ZZ	Beam Radiation of Radius/Ulna using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP071ZZ	Beam Radiation of Radius/Ulna using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP076ZZ	Beam Radiation of Radius/Ulna using Neutron Capture	Procedure	ICD-10-PCS
DP070ZZ	Beam Radiation of Radius/Ulna using Photons <1 MeV	Procedure	ICD-10-PCS
DP072ZZ	Beam Radiation of Radius/Ulna using Photons >10 MeV	Procedure	ICD-10-PCS
DD074ZZ	Beam Radiation of Rectum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD071ZZ	Beam Radiation of Rectum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP054ZZ	Beam Radiation of Rib(s) using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DM014ZZ	Beam Radiation of Right Breast using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DM016ZZ	Beam Radiation of Right Breast using Neutron Capture	Procedure	ICD-10-PCS
DM012ZZ	Beam Radiation of Right Breast using Photons >10 MeV	Procedure	ICD-10-PCS
DM011ZZ	Beam Radiation of Right Breast using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DM010ZZ	Beam Radiation of Right Breast using Photons <1 MeV	Procedure	ICD-10-PCS
D9064ZZ	Beam Radiation of Salivary Glands using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9066ZZ	Beam Radiation of Salivary Glands using Neutron Capture	Procedure	ICD-10-PCS
D9060ZZ	Beam Radiation of Salivary Glands using Photons <1 MeV	Procedure	ICD-10-PCS
D9062ZZ	Beam Radiation of Salivary Glands using Photons >10 MeV	Procedure	ICD-10-PCS
D9061ZZ	Beam Radiation of Salivary Glands using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9063ZZ	Beam Radiation of Salivary Glands using Electrons	Procedure	ICD-10-PCS
D9074ZZ	Beam Radiation of Sinuses using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9071ZZ	Beam Radiation of Sinuses using Photons 1 - 10 MeV	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
DP004ZZ	Beam Radiation of Skull using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9094ZZ	Beam Radiation of Soft Palate using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9091ZZ	Beam Radiation of Soft Palate using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D9096ZZ	Beam Radiation of Soft Palate using Neutron Capture	Procedure	ICD-10-PCS
D9090ZZ	Beam Radiation of Soft Palate using Photons <1 MeV	Procedure	ICD-10-PCS
D9092ZZ	Beam Radiation of Soft Palate using Photons >10 MeV	Procedure	ICD-10-PCS
D0064ZZ	Beam Radiation of Spinal Cord using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D0061ZZ	Beam Radiation of Spinal Cord using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D0066ZZ	Beam Radiation of Spinal Cord using Neutron Capture	Procedure	ICD-10-PCS
D0060ZZ	Beam Radiation of Spinal Cord using Photons <1 MeV	Procedure	ICD-10-PCS
D0062ZZ	Beam Radiation of Spinal Cord using Photons >10 MeV	Procedure	ICD-10-PCS
D7024ZZ	Beam Radiation of Spleen using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7021ZZ	Beam Radiation of Spleen using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DP044ZZ	Beam Radiation of Sternum using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DP041ZZ	Beam Radiation of Sternum using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DD014ZZ	Beam Radiation of Stomach using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DD011ZZ	Beam Radiation of Stomach using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DV014ZZ	Beam Radiation of Testis using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DV011ZZ	Beam Radiation of Testis using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7051ZZ	Beam Radiation of Thorax Lymphatics using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
D7054ZZ	Beam Radiation of Thorax Lymphatics using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D7056ZZ	Beam Radiation of Thorax Lymphatics using Neutron Capture	Procedure	ICD-10-PCS
D7050ZZ	Beam Radiation of Thorax Lymphatics using Photons <1 MeV	Procedure	ICD-10-PCS
D7052ZZ	Beam Radiation of Thorax Lymphatics using Photons >10 MeV	Procedure	ICD-10-PCS
D7053ZZ	Beam Radiation of Thorax Lymphatics using Electrons	Procedure	ICD-10-PCS
D7055ZZ	Beam Radiation of Thorax Lymphatics using Neutrons	Procedure	ICD-10-PCS
D7014ZZ	Beam Radiation of Thymus using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D7011ZZ	Beam Radiation of Thymus using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DG051ZZ	Beam Radiation of Thyroid using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DPOB4ZZ	Beam Radiation of Tibia/Fibula using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DPOB6ZZ	Beam Radiation of Tibia/Fibula using Neutron Capture	Procedure	ICD-10-PCS
DPOB2ZZ	Beam Radiation of Tibia/Fibula using Photons >10 MeV	Procedure	ICD-10-PCS
DPOB1ZZ	Beam Radiation of Tibia/Fibula using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DPOB0ZZ	Beam Radiation of Tibia/Fibula using Photons <1 MeV	Procedure	ICD-10-PCS
D9054ZZ	Beam Radiation of Tongue using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
D9051ZZ	Beam Radiation of Tongue using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DB004ZZ	Beam Radiation of Trachea using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DB001ZZ	Beam Radiation of Trachea using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DT014ZZ	Beam Radiation of Ureter using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DT011ZZ	Beam Radiation of Ureter using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DT034ZZ	Beam Radiation of Urethra using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DT031ZZ	Beam Radiation of Urethra using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DU024ZZ	Beam Radiation of Uterus using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DU021ZZ	Beam Radiation of Uterus using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
DW054ZZ	Beam Radiation of Whole Body using Heavy Particles (Protons,Ions)	Procedure	ICD-10-PCS
DW056ZZ	Beam Radiation of Whole Body using Neutron Capture	Procedure	ICD-10-PCS
DW050ZZ	Beam Radiation of Whole Body using Photons <1 MeV	Procedure	ICD-10-PCS
DW052ZZ	Beam Radiation of Whole Body using Photons >10 MeV	Procedure	ICD-10-PCS
DW051ZZ	Beam Radiation of Whole Body using Photons 1 - 10 MeV	Procedure	ICD-10-PCS
BT29	Computerized Tomography (CT Scan) / Kidney Transplant	Procedure	ICD-10-PCS
BT29ZZZ	Computerized Tomography (CT Scan) of Kidney Transplant	Procedure	ICD-10-PCS
DWY37ZZ	Contact Radiation of Abdomen	Procedure	ICD-10-PCS
DGY27ZZ	Contact Radiation of Adrenal Glands	Procedure	ICD-10-PCS
DFY27ZZ	Contact Radiation of Bile Ducts	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DTY27ZZ	Contact Radiation of Bladder	Procedure	ICD-10-PCS
D0Y07ZZ	Contact Radiation of Brain	Procedure	ICD-10-PCS
D0Y17ZZ	Contact Radiation of Brain Stem	Procedure	ICD-10-PCS
DBY17ZZ	Contact Radiation of Bronchus	Procedure	ICD-10-PCS
DUY17ZZ	Contact Radiation of Cervix	Procedure	ICD-10-PCS
DWY27ZZ	Contact Radiation of Chest	Procedure	ICD-10-PCS
DBY77ZZ	Contact Radiation of Chest Wall	Procedure	ICD-10-PCS
DDY57ZZ	Contact Radiation of Colon	Procedure	ICD-10-PCS
DBY87ZZ	Contact Radiation of Diaphragm	Procedure	ICD-10-PCS
DDY27ZZ	Contact Radiation of Duodenum	Procedure	ICD-10-PCS
D9Y07ZZ	Contact Radiation of Ear	Procedure	ICD-10-PCS
DDY07ZZ	Contact Radiation of Esophagus	Procedure	ICD-10-PCS
D8Y07ZZ	Contact Radiation of Eye	Procedure	ICD-10-PCS
DPY97ZZ	Contact Radiation of Femur	Procedure	ICD-10-PCS
DFY17ZZ	Contact Radiation of Gallbladder	Procedure	ICD-10-PCS
D9Y87ZZ	Contact Radiation of Hard Palate	Procedure	ICD-10-PCS
DWY17ZZ	Contact Radiation of Head and Neck	Procedure	ICD-10-PCS
DWY47ZZ	Contact Radiation of Hemibody	Procedure	ICD-10-PCS
DPY67ZZ	Contact Radiation of Humerus	Procedure	ICD-10-PCS
D9Y37ZZ	Contact Radiation of Hypopharynx	Procedure	ICD-10-PCS
DDY47ZZ	Contact Radiation of Ileum	Procedure	ICD-10-PCS
DDY37ZZ	Contact Radiation of Jejunum	Procedure	ICD-10-PCS
DTY07ZZ	Contact Radiation of Kidney	Procedure	ICD-10-PCS
D9YB7ZZ	Contact Radiation of Larynx	Procedure	ICD-10-PCS
DMY07ZZ	Contact Radiation of Left Breast	Procedure	ICD-10-PCS
DFY07ZZ	Contact Radiation of Liver	Procedure	ICD-10-PCS
DBY27ZZ	Contact Radiation of Lung	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DPY37ZZ	Contact Radiation of Mandible	Procedure	ICD-10-PCS
DPY27ZZ	Contact Radiation of Maxilla	Procedure	ICD-10-PCS
DBY67ZZ	Contact Radiation of Mediastinum	Procedure	ICD-10-PCS
D9Y47ZZ	Contact Radiation of Mouth	Procedure	ICD-10-PCS
D9YD7ZZ	Contact Radiation of Nasopharynx	Procedure	ICD-10-PCS
D9Y17ZZ	Contact Radiation of Nose	Procedure	ICD-10-PCS
D9YF7ZZ	Contact Radiation of Oropharynx	Procedure	ICD-10-PCS
DPYC7ZZ	Contact Radiation of Other Bone	Procedure	ICD-10-PCS
DUY07ZZ	Contact Radiation of Ovary	Procedure	ICD-10-PCS
DFY37ZZ	Contact Radiation of Pancreas	Procedure	ICD-10-PCS
DGY47ZZ	Contact Radiation of Parathyroid Glands	Procedure	ICD-10-PCS
DPY87ZZ	Contact Radiation of Pelvic Bones	Procedure	ICD-10-PCS
DWY67ZZ	Contact Radiation of Pelvic Region	Procedure	ICD-10-PCS
D0Y77ZZ	Contact Radiation of Peripheral Nerve	Procedure	ICD-10-PCS
DGY17ZZ	Contact Radiation of Pineal Body	Procedure	ICD-10-PCS
DGY07ZZ	Contact Radiation of Pituitary Gland	Procedure	ICD-10-PCS
DBY57ZZ	Contact Radiation of Pleura	Procedure	ICD-10-PCS
DVY07ZZ	Contact Radiation of Prostate	Procedure	ICD-10-PCS
DPY77ZZ	Contact Radiation of Radius/Ulna	Procedure	ICD-10-PCS
DDY77ZZ	Contact Radiation of Rectum	Procedure	ICD-10-PCS
DPY57ZZ	Contact Radiation of Rib(s)	Procedure	ICD-10-PCS
DMY17ZZ	Contact Radiation of Right Breast	Procedure	ICD-10-PCS
D9Y67ZZ	Contact Radiation of Salivary Glands	Procedure	ICD-10-PCS
D9Y77ZZ	Contact Radiation of Sinuses	Procedure	ICD-10-PCS
DPY07ZZ	Contact Radiation of Skull	Procedure	ICD-10-PCS
D9Y97ZZ	Contact Radiation of Soft Palate	Procedure	ICD-10-PCS
D0Y67ZZ	Contact Radiation of Spinal Cord	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
DPY47ZZ	Contact Radiation of Sternum	Procedure	ICD-10-PCS
DDY17ZZ	Contact Radiation of Stomach	Procedure	ICD-10-PCS
DVY17ZZ	Contact Radiation of Testis	Procedure	ICD-10-PCS
DGY57ZZ	Contact Radiation of Thyroid	Procedure	ICD-10-PCS
DPYB7ZZ	Contact Radiation of Tibia/Fibula	Procedure	ICD-10-PCS
D9Y57ZZ	Contact Radiation of Tongue	Procedure	ICD-10-PCS
DBY07ZZ	Contact Radiation of Trachea	Procedure	ICD-10-PCS
DTY17ZZ	Contact Radiation of Ureter	Procedure	ICD-10-PCS
DTY37ZZ	Contact Radiation of Urethra	Procedure	ICD-10-PCS
DUY27ZZ	Contact Radiation of Uterus	Procedure	ICD-10-PCS
DWY57ZZ	Contact Radiation of Whole Body	Procedure	ICD-10-PCS
BT29Y0Z	Computerized Tomography (CT Scan) of Kidney Transplant using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BT2900Z	Computerized Tomography (CT Scan) of Kidney Transplant using High Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BT2910Z	Computerized Tomography (CT Scan) of Kidney Transplant using Low Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BT290ZZ	Computerized Tomography (CT Scan) of Kidney Transplant using High Osmolar Contrast	Procedure	ICD-10-PCS
BT291ZZ	Computerized Tomography (CT Scan) of Kidney Transplant using Low Osmolar Contrast	Procedure	ICD-10-PCS
BT29YZZ	Computerized Tomography (CT Scan) of Kidney Transplant using Other Contrast	Procedure	ICD-10-PCS
DB119YZ	High Dose Rate (HDR) Brachytherapy of Bronchus using Other Isotope	Procedure	ICD-10-PCS
D9119CZ	High Dose Rate (HDR) Brachytherapy of Nose using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D7169YZ	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Other Isotope	Procedure	ICD-10-PCS
DG109YZ	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Other Isotope	Procedure	ICD-10-PCS
DW1397Z	High Dose Rate (HDR) Brachytherapy of Abdomen using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW139CZ	High Dose Rate (HDR) Brachytherapy of Abdomen using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW1399Z	High Dose Rate (HDR) Brachytherapy of Abdomen using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW1398Z	High Dose Rate (HDR) Brachytherapy of Abdomen using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DW139YZ	High Dose Rate (HDR) Brachytherapy of Abdomen using Other Isotope	Procedure	ICD-10-PCS
DW139BZ	High Dose Rate (HDR) Brachytherapy of Abdomen using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF129CZ	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF1297Z	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF1299Z	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF1298Z	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF129BZ	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT1297Z	High Dose Rate (HDR) Brachytherapy of Bladder using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT129CZ	High Dose Rate (HDR) Brachytherapy of Bladder using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT1299Z	High Dose Rate (HDR) Brachytherapy of Bladder using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT1298Z	High Dose Rate (HDR) Brachytherapy of Bladder using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT129YZ	High Dose Rate (HDR) Brachytherapy of Bladder using Other Isotope	Procedure	ICD-10-PCS
DT129BZ	High Dose Rate (HDR) Brachytherapy of Bladder using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D7109CZ	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71097Z	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71099Z	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71098Z	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7109BZ	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D01097Z	High Dose Rate (HDR) Brachytherapy of Brain using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D0109CZ	High Dose Rate (HDR) Brachytherapy of Brain using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D01099Z	High Dose Rate (HDR) Brachytherapy of Brain using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D01098Z	High Dose Rate (HDR) Brachytherapy of Brain using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D0109YZ	High Dose Rate (HDR) Brachytherapy of Brain using Other Isotope	Procedure	ICD-10-PCS
D0109BZ	High Dose Rate (HDR) Brachytherapy of Brain using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D0119CZ	High Dose Rate (HDR) Brachytherapy of Brain Stem using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D01197Z	High Dose Rate (HDR) Brachytherapy of Brain Stem using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D01199Z	High Dose Rate (HDR) Brachytherapy of Brain Stem using Iodine 125 (I-125)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D01198Z	High Dose Rate (HDR) Brachytherapy of Brain Stem using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D0119BZ	High Dose Rate (HDR) Brachytherapy of Brain Stem using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB1197Z	High Dose Rate (HDR) Brachytherapy of Bronchus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB119CZ	High Dose Rate (HDR) Brachytherapy of Bronchus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1199Z	High Dose Rate (HDR) Brachytherapy of Bronchus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1198Z	High Dose Rate (HDR) Brachytherapy of Bronchus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB119BZ	High Dose Rate (HDR) Brachytherapy of Bronchus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU1197Z	High Dose Rate (HDR) Brachytherapy of Cervix using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DU119CZ	High Dose Rate (HDR) Brachytherapy of Cervix using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU1199Z	High Dose Rate (HDR) Brachytherapy of Cervix using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU1198Z	High Dose Rate (HDR) Brachytherapy of Cervix using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU119YZ	High Dose Rate (HDR) Brachytherapy of Cervix using Other Isotope	Procedure	ICD-10-PCS
DU119BZ	High Dose Rate (HDR) Brachytherapy of Cervix using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW1297Z	High Dose Rate (HDR) Brachytherapy of Chest using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW129CZ	High Dose Rate (HDR) Brachytherapy of Chest using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW1299Z	High Dose Rate (HDR) Brachytherapy of Chest using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW1298Z	High Dose Rate (HDR) Brachytherapy of Chest using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW129YZ	High Dose Rate (HDR) Brachytherapy of Chest using Other Isotope	Procedure	ICD-10-PCS
DW129BZ	High Dose Rate (HDR) Brachytherapy of Chest using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB179CZ	High Dose Rate (HDR) Brachytherapy of Chest Wall using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1797Z	High Dose Rate (HDR) Brachytherapy of Chest Wall using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB1799Z	High Dose Rate (HDR) Brachytherapy of Chest Wall using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1798Z	High Dose Rate (HDR) Brachytherapy of Chest Wall using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB179BZ	High Dose Rate (HDR) Brachytherapy of Chest Wall using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD1597Z	High Dose Rate (HDR) Brachytherapy of Colon using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD159CZ	High Dose Rate (HDR) Brachytherapy of Colon using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1599Z	High Dose Rate (HDR) Brachytherapy of Colon using Iodine 125 (I-125)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD1598Z	High Dose Rate (HDR) Brachytherapy of Colon using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD159YZ	High Dose Rate (HDR) Brachytherapy of Colon using Other Isotope	Procedure	ICD-10-PCS
DD159BZ	High Dose Rate (HDR) Brachytherapy of Colon using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB189CZ	High Dose Rate (HDR) Brachytherapy of Diaphragm using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1897Z	High Dose Rate (HDR) Brachytherapy of Diaphragm using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB1899Z	High Dose Rate (HDR) Brachytherapy of Diaphragm using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1898Z	High Dose Rate (HDR) Brachytherapy of Diaphragm using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB189BZ	High Dose Rate (HDR) Brachytherapy of Diaphragm using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD129CZ	High Dose Rate (HDR) Brachytherapy of Duodenum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1297Z	High Dose Rate (HDR) Brachytherapy of Duodenum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD1299Z	High Dose Rate (HDR) Brachytherapy of Duodenum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1298Z	High Dose Rate (HDR) Brachytherapy of Duodenum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD129BZ	High Dose Rate (HDR) Brachytherapy of Duodenum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D9109CZ	High Dose Rate (HDR) Brachytherapy of Ear using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91097Z	High Dose Rate (HDR) Brachytherapy of Ear using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91099Z	High Dose Rate (HDR) Brachytherapy of Ear using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91098Z	High Dose Rate (HDR) Brachytherapy of Ear using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9109YZ	High Dose Rate (HDR) Brachytherapy of Ear using Other Isotope	Procedure	ICD-10-PCS
D9109BZ	High Dose Rate (HDR) Brachytherapy of Ear using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD109CZ	High Dose Rate (HDR) Brachytherapy of Esophagus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1097Z	High Dose Rate (HDR) Brachytherapy of Esophagus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD1099Z	High Dose Rate (HDR) Brachytherapy of Esophagus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1098Z	High Dose Rate (HDR) Brachytherapy of Esophagus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD109BZ	High Dose Rate (HDR) Brachytherapy of Esophagus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D8109CZ	High Dose Rate (HDR) Brachytherapy of Eye using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D81097Z	High Dose Rate (HDR) Brachytherapy of Eye using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D81099Z	High Dose Rate (HDR) Brachytherapy of Eye using Iodine 125 (I-125)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D81098Z	High Dose Rate (HDR) Brachytherapy of Eye using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D8109YZ	High Dose Rate (HDR) Brachytherapy of Eye using Other Isotope	Procedure	ICD-10-PCS
D8109BZ	High Dose Rate (HDR) Brachytherapy of Eye using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF119CZ	High Dose Rate (HDR) Brachytherapy of Gallbladder using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF1197Z	High Dose Rate (HDR) Brachytherapy of Gallbladder using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF1199Z	High Dose Rate (HDR) Brachytherapy of Gallbladder using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF1198Z	High Dose Rate (HDR) Brachytherapy of Gallbladder using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF119BZ	High Dose Rate (HDR) Brachytherapy of Gallbladder using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D9189CZ	High Dose Rate (HDR) Brachytherapy of Hard Palate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91897Z	High Dose Rate (HDR) Brachytherapy of Hard Palate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91899Z	High Dose Rate (HDR) Brachytherapy of Hard Palate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91898Z	High Dose Rate (HDR) Brachytherapy of Hard Palate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9189BZ	High Dose Rate (HDR) Brachytherapy of Hard Palate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW119CZ	High Dose Rate (HDR) Brachytherapy of Head and Neck using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW1197Z	High Dose Rate (HDR) Brachytherapy of Head and Neck using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW1199Z	High Dose Rate (HDR) Brachytherapy of Head and Neck using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW1198Z	High Dose Rate (HDR) Brachytherapy of Head and Neck using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW119BZ	High Dose Rate (HDR) Brachytherapy of Head and Neck using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D9139CZ	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91397Z	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91399Z	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91398Z	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9139BZ	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD1497Z	High Dose Rate (HDR) Brachytherapy of Ileum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD149CZ	High Dose Rate (HDR) Brachytherapy of Ileum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1499Z	High Dose Rate (HDR) Brachytherapy of Ileum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1498Z	High Dose Rate (HDR) Brachytherapy of Ileum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD149YZ	High Dose Rate (HDR) Brachytherapy of Ileum using Other Isotope	Procedure	ICD-10-PCS
DD149BZ	High Dose Rate (HDR) Brachytherapy of Ileum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD1397Z	High Dose Rate (HDR) Brachytherapy of Jejunum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD139CZ	High Dose Rate (HDR) Brachytherapy of Jejunum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1399Z	High Dose Rate (HDR) Brachytherapy of Jejunum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1398Z	High Dose Rate (HDR) Brachytherapy of Jejunum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD139YZ	High Dose Rate (HDR) Brachytherapy of Jejunum using Other Isotope	Procedure	ICD-10-PCS
DD139BZ	High Dose Rate (HDR) Brachytherapy of Jejunum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT1098Z	High Dose Rate (HDR) Brachytherapy of Kidney using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT1097Z	High Dose Rate (HDR) Brachytherapy of Kidney using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT109CZ	High Dose Rate (HDR) Brachytherapy of Kidney using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT1099Z	High Dose Rate (HDR) Brachytherapy of Kidney using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT109YZ	High Dose Rate (HDR) Brachytherapy of Kidney using Other Isotope	Procedure	ICD-10-PCS
DT109BZ	High Dose Rate (HDR) Brachytherapy of Kidney using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91B97Z	High Dose Rate (HDR) Brachytherapy of Larynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91B9CZ	High Dose Rate (HDR) Brachytherapy of Larynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91B99Z	High Dose Rate (HDR) Brachytherapy of Larynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91B98Z	High Dose Rate (HDR) Brachytherapy of Larynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91B9YZ	High Dose Rate (HDR) Brachytherapy of Larynx using Other Isotope	Procedure	ICD-10-PCS
D91B9BZ	High Dose Rate (HDR) Brachytherapy of Larynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM109CZ	High Dose Rate (HDR) Brachytherapy of Left Breast using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DM1097Z	High Dose Rate (HDR) Brachytherapy of Left Breast using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DM1099Z	High Dose Rate (HDR) Brachytherapy of Left Breast using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DM1098Z	High Dose Rate (HDR) Brachytherapy of Left Breast using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DM109BZ	High Dose Rate (HDR) Brachytherapy of Left Breast using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF1097Z	High Dose Rate (HDR) Brachytherapy of Liver using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF109CZ	High Dose Rate (HDR) Brachytherapy of Liver using Californium 252 (Cf-252)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DF1099Z	High Dose Rate (HDR) Brachytherapy of Liver using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF1098Z	High Dose Rate (HDR) Brachytherapy of Liver using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF109YZ	High Dose Rate (HDR) Brachytherapy of Liver using Other Isotope	Procedure	ICD-10-PCS
DF109BZ	High Dose Rate (HDR) Brachytherapy of Liver using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB1297Z	High Dose Rate (HDR) Brachytherapy of Lung using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB129CZ	High Dose Rate (HDR) Brachytherapy of Lung using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1299Z	High Dose Rate (HDR) Brachytherapy of Lung using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1298Z	High Dose Rate (HDR) Brachytherapy of Lung using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB129YZ	High Dose Rate (HDR) Brachytherapy of Lung using Other Isotope	Procedure	ICD-10-PCS
DB129BZ	High Dose Rate (HDR) Brachytherapy of Lung using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB169CZ	High Dose Rate (HDR) Brachytherapy of Mediastinum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1697Z	High Dose Rate (HDR) Brachytherapy of Mediastinum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB1699Z	High Dose Rate (HDR) Brachytherapy of Mediastinum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1698Z	High Dose Rate (HDR) Brachytherapy of Mediastinum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB169BZ	High Dose Rate (HDR) Brachytherapy of Mediastinum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91497Z	High Dose Rate (HDR) Brachytherapy of Mouth using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D9149CZ	High Dose Rate (HDR) Brachytherapy of Mouth using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91499Z	High Dose Rate (HDR) Brachytherapy of Mouth using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91498Z	High Dose Rate (HDR) Brachytherapy of Mouth using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9149YZ	High Dose Rate (HDR) Brachytherapy of Mouth using Other Isotope	Procedure	ICD-10-PCS
D9149BZ	High Dose Rate (HDR) Brachytherapy of Mouth using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91D9CZ	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91D97Z	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91D99Z	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91D98Z	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91D9BZ	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91197Z	High Dose Rate (HDR) Brachytherapy of Nose using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D91199Z	High Dose Rate (HDR) Brachytherapy of Nose using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91198Z	High Dose Rate (HDR) Brachytherapy of Nose using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9119YZ	High Dose Rate (HDR) Brachytherapy of Nose using Other Isotope	Procedure	ICD-10-PCS
D9119BZ	High Dose Rate (HDR) Brachytherapy of Nose using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91F9CZ	High Dose Rate (HDR) Brachytherapy of Oropharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91F97Z	High Dose Rate (HDR) Brachytherapy of Oropharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91F99Z	High Dose Rate (HDR) Brachytherapy of Oropharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91F98Z	High Dose Rate (HDR) Brachytherapy of Oropharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91F9BZ	High Dose Rate (HDR) Brachytherapy of Oropharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU1097Z	High Dose Rate (HDR) Brachytherapy of Ovary using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DU109CZ	High Dose Rate (HDR) Brachytherapy of Ovary using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU1099Z	High Dose Rate (HDR) Brachytherapy of Ovary using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU1098Z	High Dose Rate (HDR) Brachytherapy of Ovary using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU109YZ	High Dose Rate (HDR) Brachytherapy of Ovary using Other Isotope	Procedure	ICD-10-PCS
DU109BZ	High Dose Rate (HDR) Brachytherapy of Ovary using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF1397Z	High Dose Rate (HDR) Brachytherapy of Pancreas using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF139CZ	High Dose Rate (HDR) Brachytherapy of Pancreas using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF1399Z	High Dose Rate (HDR) Brachytherapy of Pancreas using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF1398Z	High Dose Rate (HDR) Brachytherapy of Pancreas using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF139BZ	High Dose Rate (HDR) Brachytherapy of Pancreas using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW1697Z	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW169CZ	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW1699Z	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW1698Z	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW169YZ	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Other Isotope	Procedure	ICD-10-PCS
DW169BZ	High Dose Rate (HDR) Brachytherapy of Pelvic Region using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D0179CZ	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Californium 252 (Cf-252)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D01797Z	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D01799Z	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D01798Z	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D0179BZ	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG119CZ	High Dose Rate (HDR) Brachytherapy of Pineal Body using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG1197Z	High Dose Rate (HDR) Brachytherapy of Pineal Body using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG1199Z	High Dose Rate (HDR) Brachytherapy of Pineal Body using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG1198Z	High Dose Rate (HDR) Brachytherapy of Pineal Body using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG119BZ	High Dose Rate (HDR) Brachytherapy of Pineal Body using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB1597Z	High Dose Rate (HDR) Brachytherapy of Pleura using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB159CZ	High Dose Rate (HDR) Brachytherapy of Pleura using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1599Z	High Dose Rate (HDR) Brachytherapy of Pleura using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1598Z	High Dose Rate (HDR) Brachytherapy of Pleura using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB159YZ	High Dose Rate (HDR) Brachytherapy of Pleura using Other Isotope	Procedure	ICD-10-PCS
DB159BZ	High Dose Rate (HDR) Brachytherapy of Pleura using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DV1097Z	High Dose Rate (HDR) Brachytherapy of Prostate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DV109CZ	High Dose Rate (HDR) Brachytherapy of Prostate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DV1099Z	High Dose Rate (HDR) Brachytherapy of Prostate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DV1098Z	High Dose Rate (HDR) Brachytherapy of Prostate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DV109BZ	High Dose Rate (HDR) Brachytherapy of Prostate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD1797Z	High Dose Rate (HDR) Brachytherapy of Rectum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD179CZ	High Dose Rate (HDR) Brachytherapy of Rectum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD1799Z	High Dose Rate (HDR) Brachytherapy of Rectum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1798Z	High Dose Rate (HDR) Brachytherapy of Rectum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD179YZ	High Dose Rate (HDR) Brachytherapy of Rectum using Other Isotope	Procedure	ICD-10-PCS
DD179BZ	High Dose Rate (HDR) Brachytherapy of Rectum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM119CZ	High Dose Rate (HDR) Brachytherapy of Right Breast using Californium 252 (Cf-252)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DM1197Z	High Dose Rate (HDR) Brachytherapy of Right Breast using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DM1199Z	High Dose Rate (HDR) Brachytherapy of Right Breast using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DM1198Z	High Dose Rate (HDR) Brachytherapy of Right Breast using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DM119BZ	High Dose Rate (HDR) Brachytherapy of Right Breast using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91797Z	High Dose Rate (HDR) Brachytherapy of Sinuses using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D9179CZ	High Dose Rate (HDR) Brachytherapy of Sinuses using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91799Z	High Dose Rate (HDR) Brachytherapy of Sinuses using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91798Z	High Dose Rate (HDR) Brachytherapy of Sinuses using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9179YZ	High Dose Rate (HDR) Brachytherapy of Sinuses using Other Isotope	Procedure	ICD-10-PCS
D9179BZ	High Dose Rate (HDR) Brachytherapy of Sinuses using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D9199CZ	High Dose Rate (HDR) Brachytherapy of Soft Palate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91997Z	High Dose Rate (HDR) Brachytherapy of Soft Palate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91999Z	High Dose Rate (HDR) Brachytherapy of Soft Palate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91998Z	High Dose Rate (HDR) Brachytherapy of Soft Palate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9199BZ	High Dose Rate (HDR) Brachytherapy of Soft Palate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D0169CZ	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D01697Z	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D01699Z	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D01698Z	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D0169BZ	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D71297Z	High Dose Rate (HDR) Brachytherapy of Spleen using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D7129CZ	High Dose Rate (HDR) Brachytherapy of Spleen using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71299Z	High Dose Rate (HDR) Brachytherapy of Spleen using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71298Z	High Dose Rate (HDR) Brachytherapy of Spleen using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7129YZ	High Dose Rate (HDR) Brachytherapy of Spleen using Other Isotope	Procedure	ICD-10-PCS
D7129BZ	High Dose Rate (HDR) Brachytherapy of Spleen using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD119CZ	High Dose Rate (HDR) Brachytherapy of Stomach using Californium 252 (Cf-252)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD1197Z	High Dose Rate (HDR) Brachytherapy of Stomach using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD1199Z	High Dose Rate (HDR) Brachytherapy of Stomach using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD1198Z	High Dose Rate (HDR) Brachytherapy of Stomach using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD119YZ	High Dose Rate (HDR) Brachytherapy of Stomach using Other Isotope	Procedure	ICD-10-PCS
DD119BZ	High Dose Rate (HDR) Brachytherapy of Stomach using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DV1197Z	High Dose Rate (HDR) Brachytherapy of Testis using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DV119CZ	High Dose Rate (HDR) Brachytherapy of Testis using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DV1199Z	High Dose Rate (HDR) Brachytherapy of Testis using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DV1198Z	High Dose Rate (HDR) Brachytherapy of Testis using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DV119YZ	High Dose Rate (HDR) Brachytherapy of Testis using Other Isotope	Procedure	ICD-10-PCS
DV119BZ	High Dose Rate (HDR) Brachytherapy of Testis using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D71197Z	High Dose Rate (HDR) Brachytherapy of Thymus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D7119CZ	High Dose Rate (HDR) Brachytherapy of Thymus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71199Z	High Dose Rate (HDR) Brachytherapy of Thymus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71198Z	High Dose Rate (HDR) Brachytherapy of Thymus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7119YZ	High Dose Rate (HDR) Brachytherapy of Thymus using Other Isotope	Procedure	ICD-10-PCS
D7119BZ	High Dose Rate (HDR) Brachytherapy of Thymus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG1597Z	High Dose Rate (HDR) Brachytherapy of Thyroid using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG159CZ	High Dose Rate (HDR) Brachytherapy of Thyroid using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG1599Z	High Dose Rate (HDR) Brachytherapy of Thyroid using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG1598Z	High Dose Rate (HDR) Brachytherapy of Thyroid using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG159YZ	High Dose Rate (HDR) Brachytherapy of Thyroid using Other Isotope	Procedure	ICD-10-PCS
DG159BZ	High Dose Rate (HDR) Brachytherapy of Thyroid using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91597Z	High Dose Rate (HDR) Brachytherapy of Tongue using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D9159CZ	High Dose Rate (HDR) Brachytherapy of Tongue using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91599Z	High Dose Rate (HDR) Brachytherapy of Tongue using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91598Z	High Dose Rate (HDR) Brachytherapy of Tongue using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D9159YZ	High Dose Rate (HDR) Brachytherapy of Tongue using Other Isotope	Procedure	ICD-10-PCS
D9159BZ	High Dose Rate (HDR) Brachytherapy of Tongue using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB1097Z	High Dose Rate (HDR) Brachytherapy of Trachea using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB109CZ	High Dose Rate (HDR) Brachytherapy of Trachea using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB1099Z	High Dose Rate (HDR) Brachytherapy of Trachea using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB1098Z	High Dose Rate (HDR) Brachytherapy of Trachea using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB109YZ	High Dose Rate (HDR) Brachytherapy of Trachea using Other Isotope	Procedure	ICD-10-PCS
DB109BZ	High Dose Rate (HDR) Brachytherapy of Trachea using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT1197Z	High Dose Rate (HDR) Brachytherapy of Ureter using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT119CZ	High Dose Rate (HDR) Brachytherapy of Ureter using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT1199Z	High Dose Rate (HDR) Brachytherapy of Ureter using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT1198Z	High Dose Rate (HDR) Brachytherapy of Ureter using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT119YZ	High Dose Rate (HDR) Brachytherapy of Ureter using Other Isotope	Procedure	ICD-10-PCS
DT119BZ	High Dose Rate (HDR) Brachytherapy of Ureter using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT1397Z	High Dose Rate (HDR) Brachytherapy of Urethra using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT139CZ	High Dose Rate (HDR) Brachytherapy of Urethra using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT1399Z	High Dose Rate (HDR) Brachytherapy of Urethra using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT1398Z	High Dose Rate (HDR) Brachytherapy of Urethra using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT139YZ	High Dose Rate (HDR) Brachytherapy of Urethra using Other Isotope	Procedure	ICD-10-PCS
DT139BZ	High Dose Rate (HDR) Brachytherapy of Urethra using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU1297Z	High Dose Rate (HDR) Brachytherapy of Uterus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DU129CZ	High Dose Rate (HDR) Brachytherapy of Uterus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU1299Z	High Dose Rate (HDR) Brachytherapy of Uterus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU1298Z	High Dose Rate (HDR) Brachytherapy of Uterus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU129YZ	High Dose Rate (HDR) Brachytherapy of Uterus using Other Isotope	Procedure	ICD-10-PCS
DU129BZ	High Dose Rate (HDR) Brachytherapy of Uterus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D7169CZ	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
D71697Z	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71698Z	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7169BZ	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D71699Z	High Dose Rate (HDR) Brachytherapy of Abdomen Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG129CZ	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG1297Z	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG1299Z	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG1298Z	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG129BZ	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG129YZ	High Dose Rate (HDR) Brachytherapy of Adrenal Glands using Other Isotope	Procedure	ICD-10-PCS
D7149YZ	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D7149CZ	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71497Z	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71498Z	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7149BZ	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D71499Z	High Dose Rate (HDR) Brachytherapy of Axillary Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF129YZ	High Dose Rate (HDR) Brachytherapy of Bile Ducts using Other Isotope	Procedure	ICD-10-PCS
D7109YZ	High Dose Rate (HDR) Brachytherapy of Bone Marrow using Other Isotope	Procedure	ICD-10-PCS
D0119YZ	High Dose Rate (HDR) Brachytherapy of Brain Stem using Other Isotope	Procedure	ICD-10-PCS
DB179YZ	High Dose Rate (HDR) Brachytherapy of Chest Wall using Other Isotope	Procedure	ICD-10-PCS
DB189YZ	High Dose Rate (HDR) Brachytherapy of Diaphragm using Other Isotope	Procedure	ICD-10-PCS
DD129YZ	High Dose Rate (HDR) Brachytherapy of Duodenum using Other Isotope	Procedure	ICD-10-PCS
DD109YZ	High Dose Rate (HDR) Brachytherapy of Esophagus using Other Isotope	Procedure	ICD-10-PCS
DF119YZ	High Dose Rate (HDR) Brachytherapy of Gallbladder using Other Isotope	Procedure	ICD-10-PCS
D9189YZ	High Dose Rate (HDR) Brachytherapy of Hard Palate using Other Isotope	Procedure	ICD-10-PCS
DW119YZ	High Dose Rate (HDR) Brachytherapy of Head and Neck using Other Isotope	Procedure	ICD-10-PCS
D9139YZ	High Dose Rate (HDR) Brachytherapy of Hypopharynx using Other Isotope	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D7189YZ	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D7189CZ	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71897Z	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71899Z	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71898Z	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7189BZ	High Dose Rate (HDR) Brachytherapy of Inguinal Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM109YZ	High Dose Rate (HDR) Brachytherapy of Left Breast using Other Isotope	Procedure	ICD-10-PCS
DB169YZ	High Dose Rate (HDR) Brachytherapy of Mediastinum using Other Isotope	Procedure	ICD-10-PCS
D91D9YZ	High Dose Rate (HDR) Brachytherapy of Nasopharynx using Other Isotope	Procedure	ICD-10-PCS
D7139YZ	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D7139CZ	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71397Z	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71399Z	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71398Z	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7139BZ	High Dose Rate (HDR) Brachytherapy of Neck Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91F9YZ	High Dose Rate (HDR) Brachytherapy of Oropharynx using Other Isotope	Procedure	ICD-10-PCS
DF139YZ	High Dose Rate (HDR) Brachytherapy of Pancreas using Other Isotope	Procedure	ICD-10-PCS
DG149CZ	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG1497Z	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG1498Z	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG149BZ	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG1499Z	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D7179YZ	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D7179CZ	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71797Z	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71799Z	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71798Z	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D7179BZ	High Dose Rate (HDR) Brachytherapy of Pelvis Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D0179YZ	High Dose Rate (HDR) Brachytherapy of Peripheral Nerve using Other Isotope	Procedure	ICD-10-PCS
DG119YZ	High Dose Rate (HDR) Brachytherapy of Pineal Body using Other Isotope	Procedure	ICD-10-PCS
DG109CZ	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG1097Z	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG1099Z	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG1098Z	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG109BZ	High Dose Rate (HDR) Brachytherapy of Pituitary Gland using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DV109YZ	High Dose Rate (HDR) Brachytherapy of Prostate using Other Isotope	Procedure	ICD-10-PCS
DM119YZ	High Dose Rate (HDR) Brachytherapy of Right Breast using Other Isotope	Procedure	ICD-10-PCS
D9169YZ	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Other Isotope	Procedure	ICD-10-PCS
D9169CZ	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91697Z	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91699Z	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91698Z	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D9169BZ	High Dose Rate (HDR) Brachytherapy of Salivary Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D9199YZ	High Dose Rate (HDR) Brachytherapy of Soft Palate using Other Isotope	Procedure	ICD-10-PCS
D0169YZ	High Dose Rate (HDR) Brachytherapy of Spinal Cord using Other Isotope	Procedure	ICD-10-PCS
D7159YZ	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D7159CZ	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D71597Z	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D71599Z	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D71598Z	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D7159BZ	High Dose Rate (HDR) Brachytherapy of Thorax Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG149YZ	High Dose Rate (HDR) Brachytherapy of Parathyroid Glands using Other Isotope	Procedure	ICD-10-PCS
OWHP81Z	Insertion of Radioactive Element into Gastrointestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OWHR81Z	Insertion of Radioactive Element into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
OJHS31Z	Insertion of Radioactive Element into Head and Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	Procedure	ICD-10-PCS
OFHB81Z	Insertion of Radioactive Element into Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OFHD71Z	Insertion of Radioactive Element into Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OBH081Z	Insertion of Radioactive Element into Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OBH041Z	Insertion of Radioactive Element into Tracheobronchial Tree, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OUHG81Z	Insertion of Radioactive Element into Vagina, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OWH341Z	Insertion of Radioactive Element into Oral Cavity and Throat, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OVH081Z	Insertion of Radioactive Element into Prostate, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OBH071Z	Insertion of Radioactive Element into Tracheobronchial Tree, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OUHC81Z	Insertion of Radioactive Element into Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OHHU81Z	Insertion of Radioactive Element into Left Breast, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OUHG71Z	Insertion of Radioactive Element into Vagina, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OUHC71Z	Insertion of Radioactive Element into Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OHHV81Z	Insertion of Radioactive Element into Bilateral Breast, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OWHP71Z	Insertion of Radioactive Element into Gastrointestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OWHP01Z	Insertion of Radioactive Element into Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
OWHP41Z	Insertion of Radioactive Element into Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHP31Z	Insertion of Radioactive Element into Gastrointestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
OJHS01Z	Insertion of Radioactive Element into Head and Neck Subcutaneous Tissue and Fascia, Open Approach	Procedure	ICD-10-PCS
OFHB01Z	Insertion of Radioactive Element into Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
OFHB31Z	Insertion of Radioactive Element into Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
OFHB41Z	Insertion of Radioactive Element into Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH841Z	Insertion of Radioactive Element into Left Femoral Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH641Z	Insertion of Radioactive Element into Left Inguinal Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYHB41Z	Insertion of Radioactive Element into Left Lower Extremity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXH341Z	Insertion of Radioactive Element into Left Shoulder Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OJHW31Z	Insertion of Radioactive Element into Lower Extremity Subcutaneous Tissue and Fascia, Percutaneous Approach	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
OJHW01Z	Insertion of Radioactive Element into Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	Procedure	ICD-10-PCS
OHHX81Z	Insertion of Radioactive Element into Left Nipple, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OFHD81Z	Insertion of Radioactive Element into Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OWHQ81Z	Insertion of Radioactive Element into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OYH741Z	Insertion of Radioactive Element into Right Femoral Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OHHW81Z	Insertion of Radioactive Element into Right Nipple, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OHHW71Z	Insertion of Radioactive Element into Right Nipple, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OXH241Z	Insertion of Radioactive Element into Right Shoulder Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXH641Z	Insertion of Radioactive Element into Right Upper Extremity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OJHT31Z	Insertion of Radioactive Element into Trunk Subcutaneous Tissue and Fascia, Percutaneous Approach	Procedure	ICD-10-PCS
OJHT01Z	Insertion of Radioactive Element into Trunk Subcutaneous Tissue and Fascia, Open Approach	Procedure	ICD-10-PCS
OJHV31Z	Insertion of Radioactive Element into Upper Extremity Subcutaneous Tissue and Fascia, Percutaneous Approach	Procedure	ICD-10-PCS
OJHV01Z	Insertion of Radioactive Element into Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	Procedure	ICD-10-PCS
OWHF01Z	Insertion of Radioactive Element into Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
OWHF31Z	Insertion of Radioactive Element into Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
OWHF41Z	Insertion of Radioactive Element into Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OHHVX1Z	Insertion of Radioactive Element into Bilateral Breast, External Approach	Procedure	ICD-10-PCS
OWH831Z	Insertion of Radioactive Element into Chest Wall, Percutaneous Approach	Procedure	ICD-10-PCS
OWH841Z	Insertion of Radioactive Element into Chest Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWH141Z	Insertion of Radioactive Element into Cranial Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ODH581Z	Insertion of Radioactive Element into Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
ODH571Z	Insertion of Radioactive Element into Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
ODH541Z	Insertion of Radioactive Element into Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHN01Z	Insertion of Radioactive Element into Female Perineum, Open Approach	Procedure	ICD-10-PCS
OWHN31Z	Insertion of Radioactive Element into Female Perineum, Percutaneous Approach	Procedure	ICD-10-PCS
OWHN41Z	Insertion of Radioactive Element into Female Perineum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHR71Z	Insertion of Radioactive Element into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0WHR31Z	Insertion of Radioactive Element into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0CH7X1Z	Insertion of Radioactive Element into Tongue, External Approach	Procedure	ICD-10-PCS
0CH701Z	Insertion of Radioactive Element into Tongue, Open Approach	Procedure	ICD-10-PCS
0CH731Z	Insertion of Radioactive Element into Tongue, Percutaneous Approach	Procedure	ICD-10-PCS
0YHL01Z	Insertion of Radioactive Element into Left Ankle Region, Open Approach	Procedure	ICD-10-PCS
0YHL31Z	Insertion of Radioactive Element into Left Ankle Region, Percutaneous Approach	Procedure	ICD-10-PCS
0YHL41Z	Insertion of Radioactive Element into Left Ankle Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XH501Z	Insertion of Radioactive Element into Left Axilla, Open Approach	Procedure	ICD-10-PCS
0XH531Z	Insertion of Radioactive Element into Left Axilla, Percutaneous Approach	Procedure	ICD-10-PCS
0XH541Z	Insertion of Radioactive Element into Left Axilla, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0YH101Z	Insertion of Radioactive Element into Left Buttock, Open Approach	Procedure	ICD-10-PCS
0YH131Z	Insertion of Radioactive Element into Left Buttock, Percutaneous Approach	Procedure	ICD-10-PCS
0YH141Z	Insertion of Radioactive Element into Left Buttock, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XHC01Z	Insertion of Radioactive Element into Left Elbow Region, Open Approach	Procedure	ICD-10-PCS
0XHC31Z	Insertion of Radioactive Element into Left Elbow Region, Percutaneous Approach	Procedure	ICD-10-PCS
0XHC41Z	Insertion of Radioactive Element into Left Elbow Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0YH801Z	Insertion of Radioactive Element into Left Femoral Region, Open Approach	Procedure	ICD-10-PCS
0YH831Z	Insertion of Radioactive Element into Left Femoral Region, Percutaneous Approach	Procedure	ICD-10-PCS
0YHN41Z	Insertion of Radioactive Element into Left Foot, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XHK01Z	Insertion of Radioactive Element into Left Hand, Open Approach	Procedure	ICD-10-PCS
0XHK31Z	Insertion of Radioactive Element into Left Hand, Percutaneous Approach	Procedure	ICD-10-PCS
0XHK41Z	Insertion of Radioactive Element into Left Hand, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0YH601Z	Insertion of Radioactive Element into Left Inguinal Region, Open Approach	Procedure	ICD-10-PCS
0YH631Z	Insertion of Radioactive Element into Left Inguinal Region, Percutaneous Approach	Procedure	ICD-10-PCS
0YHG01Z	Insertion of Radioactive Element into Left Knee Region, Open Approach	Procedure	ICD-10-PCS
0YHG31Z	Insertion of Radioactive Element into Left Knee Region, Percutaneous Approach	Procedure	ICD-10-PCS
0YHG41Z	Insertion of Radioactive Element into Left Knee Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OXHF01Z	Insertion of Radioactive Element into Left Lower Arm, Open Approach	Procedure	ICD-10-PCS
OXHF31Z	Insertion of Radioactive Element into Left Lower Arm, Percutaneous Approach	Procedure	ICD-10-PCS
OXHF41Z	Insertion of Radioactive Element into Left Lower Arm, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYHB01Z	Insertion of Radioactive Element into Left Lower Extremity, Open Approach	Procedure	ICD-10-PCS
OYHB31Z	Insertion of Radioactive Element into Left Lower Extremity, Percutaneous Approach	Procedure	ICD-10-PCS
OYHJ01Z	Insertion of Radioactive Element into Left Lower Leg, Open Approach	Procedure	ICD-10-PCS
OYHJ31Z	Insertion of Radioactive Element into Left Lower Leg, Percutaneous Approach	Procedure	ICD-10-PCS
OYHJ41Z	Insertion of Radioactive Element into Left Lower Leg, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHB01Z	Insertion of Radioactive Element into Left Pleural Cavity, Open Approach	Procedure	ICD-10-PCS
OWHB31Z	Insertion of Radioactive Element into Left Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
OXH301Z	Insertion of Radioactive Element into Left Shoulder Region, Open Approach	Procedure	ICD-10-PCS
OXH331Z	Insertion of Radioactive Element into Left Shoulder Region, Percutaneous Approach	Procedure	ICD-10-PCS
OXH931Z	Insertion of Radioactive Element into Left Upper Arm, Percutaneous Approach	Procedure	ICD-10-PCS
OXH941Z	Insertion of Radioactive Element into Left Upper Arm, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXH701Z	Insertion of Radioactive Element into Left Upper Extremity, Open Approach	Procedure	ICD-10-PCS
OXH731Z	Insertion of Radioactive Element into Left Upper Extremity, Percutaneous Approach	Procedure	ICD-10-PCS
OYHD01Z	Insertion of Radioactive Element into Left Upper Leg, Open Approach	Procedure	ICD-10-PCS
OYHD31Z	Insertion of Radioactive Element into Left Upper Leg, Percutaneous Approach	Procedure	ICD-10-PCS
OYHD41Z	Insertion of Radioactive Element into Left Upper Leg, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXHH01Z	Insertion of Radioactive Element into Left Wrist Region, Open Approach	Procedure	ICD-10-PCS
OXHH31Z	Insertion of Radioactive Element into Left Wrist Region, Percutaneous Approach	Procedure	ICD-10-PCS
OWHL41Z	Insertion of Radioactive Element into Lower Back, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OBHL81Z	Insertion of Radioactive Element into Left Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
OBHL71Z	Insertion of Radioactive Element into Left Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OHHX71Z	Insertion of Radioactive Element into Left Nipple, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OWHB41Z	Insertion of Radioactive Element into Left Pleural Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXH901Z	Insertion of Radioactive Element into Left Upper Arm, Open Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OXH741Z	Insertion of Radioactive Element into Left Upper Extremity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXHH41Z	Insertion of Radioactive Element into Left Wrist Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHM01Z	Insertion of Radioactive Element into Male Perineum, Open Approach	Procedure	ICD-10-PCS
OWHM31Z	Insertion of Radioactive Element into Male Perineum, Percutaneous Approach	Procedure	ICD-10-PCS
OWHM41Z	Insertion of Radioactive Element into Male Perineum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHC41Z	Insertion of Radioactive Element into Mediastinum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWH641Z	Insertion of Radioactive Element into Neck, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWH301Z	Insertion of Radioactive Element into Oral Cavity and Throat, Open Approach	Procedure	ICD-10-PCS
OWH331Z	Insertion of Radioactive Element into Oral Cavity and Throat, Percutaneous Approach	Procedure	ICD-10-PCS
OFHD41Z	Insertion of Radioactive Element into Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHJ41Z	Insertion of Radioactive Element into Pelvic Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHD01Z	Insertion of Radioactive Element into Pericardial Cavity, Open Approach	Procedure	ICD-10-PCS
OWHD41Z	Insertion of Radioactive Element into Pericardial Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHD31Z	Insertion of Radioactive Element into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
OWHG01Z	Insertion of Radioactive Element into Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
OWHG31Z	Insertion of Radioactive Element into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
OWHG41Z	Insertion of Radioactive Element into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OVH041Z	Insertion of Radioactive Element into Prostate, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OVH071Z	Insertion of Radioactive Element into Prostate, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
ODHP81Z	Insertion of Radioactive Element into Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
ODHP41Z	Insertion of Radioactive Element into Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ODHP71Z	Insertion of Radioactive Element into Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OWHQ71Z	Insertion of Radioactive Element into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
OWHQ01Z	Insertion of Radioactive Element into Respiratory Tract, Open Approach	Procedure	ICD-10-PCS
OWHQ31Z	Insertion of Radioactive Element into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
OWHQ41Z	Insertion of Radioactive Element into Respiratory Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHH41Z	Insertion of Radioactive Element into Retroperitoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OYHK01Z	Insertion of Radioactive Element into Right Ankle Region, Open Approach	Procedure	ICD-10-PCS
OYHK31Z	Insertion of Radioactive Element into Right Ankle Region, Percutaneous Approach	Procedure	ICD-10-PCS
OXH401Z	Insertion of Radioactive Element into Right Axilla, Open Approach	Procedure	ICD-10-PCS
OXH431Z	Insertion of Radioactive Element into Right Axilla, Percutaneous Approach	Procedure	ICD-10-PCS
OXH441Z	Insertion of Radioactive Element into Right Axilla, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH001Z	Insertion of Radioactive Element into Right Buttock, Open Approach	Procedure	ICD-10-PCS
OYH031Z	Insertion of Radioactive Element into Right Buttock, Percutaneous Approach	Procedure	ICD-10-PCS
OYH041Z	Insertion of Radioactive Element into Right Buttock, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH701Z	Insertion of Radioactive Element into Right Femoral Region, Open Approach	Procedure	ICD-10-PCS
OYH731Z	Insertion of Radioactive Element into Right Femoral Region, Percutaneous Approach	Procedure	ICD-10-PCS
OYHM41Z	Insertion of Radioactive Element into Right Foot, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXHJ01Z	Insertion of Radioactive Element into Right Hand, Open Approach	Procedure	ICD-10-PCS
OXHJ31Z	Insertion of Radioactive Element into Right Hand, Percutaneous Approach	Procedure	ICD-10-PCS
OXHJ41Z	Insertion of Radioactive Element into Right Hand, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH501Z	Insertion of Radioactive Element into Right Inguinal Region, Open Approach	Procedure	ICD-10-PCS
OYH531Z	Insertion of Radioactive Element into Right Inguinal Region, Percutaneous Approach	Procedure	ICD-10-PCS
OYHF01Z	Insertion of Radioactive Element into Right Knee Region, Open Approach	Procedure	ICD-10-PCS
OYHF31Z	Insertion of Radioactive Element into Right Knee Region, Percutaneous Approach	Procedure	ICD-10-PCS
OYHF41Z	Insertion of Radioactive Element into Right Knee Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OXHD01Z	Insertion of Radioactive Element into Right Lower Arm, Open Approach	Procedure	ICD-10-PCS
OXHD31Z	Insertion of Radioactive Element into Right Lower Arm, Percutaneous Approach	Procedure	ICD-10-PCS
OXHD41Z	Insertion of Radioactive Element into Right Lower Arm, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OYH901Z	Insertion of Radioactive Element into Right Lower Extremity, Open Approach	Procedure	ICD-10-PCS
OYH931Z	Insertion of Radioactive Element into Right Lower Extremity, Percutaneous Approach	Procedure	ICD-10-PCS
OYHH01Z	Insertion of Radioactive Element into Right Lower Leg, Open Approach	Procedure	ICD-10-PCS
OYHH31Z	Insertion of Radioactive Element into Right Lower Leg, Percutaneous Approach	Procedure	ICD-10-PCS
OYHH41Z	Insertion of Radioactive Element into Right Lower Leg, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0WH931Z	Insertion of Radioactive Element into Right Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0XH201Z	Insertion of Radioactive Element into Right Shoulder Region, Open Approach	Procedure	ICD-10-PCS
0XH231Z	Insertion of Radioactive Element into Right Shoulder Region, Percutaneous Approach	Procedure	ICD-10-PCS
0XH801Z	Insertion of Radioactive Element into Right Upper Arm, Open Approach	Procedure	ICD-10-PCS
0XH831Z	Insertion of Radioactive Element into Right Upper Arm, Percutaneous Approach	Procedure	ICD-10-PCS
0XH841Z	Insertion of Radioactive Element into Right Upper Arm, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XH601Z	Insertion of Radioactive Element into Right Upper Extremity, Open Approach	Procedure	ICD-10-PCS
0XH631Z	Insertion of Radioactive Element into Right Upper Extremity, Percutaneous Approach	Procedure	ICD-10-PCS
0YHC01Z	Insertion of Radioactive Element into Right Upper Leg, Open Approach	Procedure	ICD-10-PCS
0YHC31Z	Insertion of Radioactive Element into Right Upper Leg, Percutaneous Approach	Procedure	ICD-10-PCS
0YHC41Z	Insertion of Radioactive Element into Right Upper Leg, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XHG01Z	Insertion of Radioactive Element into Right Wrist Region, Open Approach	Procedure	ICD-10-PCS
0XHG31Z	Insertion of Radioactive Element into Right Wrist Region, Percutaneous Approach	Procedure	ICD-10-PCS
0YHK41Z	Insertion of Radioactive Element into Right Ankle Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XHB01Z	Insertion of Radioactive Element into Right Elbow Region, Open Approach	Procedure	ICD-10-PCS
0XHB31Z	Insertion of Radioactive Element into Right Elbow Region, Percutaneous Approach	Procedure	ICD-10-PCS
0XHB41Z	Insertion of Radioactive Element into Right Elbow Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0YH541Z	Insertion of Radioactive Element into Right Inguinal Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0YH941Z	Insertion of Radioactive Element into Right Lower Extremity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0BHK81Z	Insertion of Radioactive Element into Right Lung, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0BHK71Z	Insertion of Radioactive Element into Right Lung, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0WH901Z	Insertion of Radioactive Element into Right Pleural Cavity, Open Approach	Procedure	ICD-10-PCS
0WH941Z	Insertion of Radioactive Element into Right Pleural Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0XHG41Z	Insertion of Radioactive Element into Right Wrist Region, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0BH001Z	Insertion of Radioactive Element into Tracheobronchial Tree, Open Approach	Procedure	ICD-10-PCS
0BH031Z	Insertion of Radioactive Element into Tracheobronchial Tree, Percutaneous Approach	Procedure	ICD-10-PCS
0WHK41Z	Insertion of Radioactive Element into Upper Back, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0WH441Z	Insertion of Radioactive Element into Upper Jaw, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0HHV71Z	Insertion of Radioactive Element into Bilateral Breast, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0HHU71Z	Insertion of Radioactive Element into Left Breast, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0HHT71Z	Insertion of Radioactive Element into Right Breast, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0HHT81Z	Insertion of Radioactive Element into Right Breast, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0HHV01Z	Insertion of Radioactive Element into Bilateral Breast, Open Approach	Procedure	ICD-10-PCS
0HHV31Z	Insertion of Radioactive Element into Bilateral Breast, Percutaneous Approach	Procedure	ICD-10-PCS
0WHR41Z	Insertion of Radioactive Element into Genitourinary Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0BHL31Z	Insertion of Radioactive Element into Left Lung, Percutaneous Approach	Procedure	ICD-10-PCS
0WHH01Z	Insertion of Radioactive Element into Retroperitoneum, Open Approach	Procedure	ICD-10-PCS
0WHH31Z	Insertion of Radioactive Element into Retroperitoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0UHC01Z	Insertion of Radioactive Element into Cervix, Open Approach	Procedure	ICD-10-PCS
0UHC31Z	Insertion of Radioactive Element into Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UHC41Z	Insertion of Radioactive Element into Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WH801Z	Insertion of Radioactive Element into Chest Wall, Open Approach	Procedure	ICD-10-PCS
0WH101Z	Insertion of Radioactive Element into Cranial Cavity, Open Approach	Procedure	ICD-10-PCS
0WH131Z	Insertion of Radioactive Element into Cranial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0DH501Z	Insertion of Radioactive Element into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH531Z	Insertion of Radioactive Element into Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0WH201Z	Insertion of Radioactive Element into Face, Open Approach	Procedure	ICD-10-PCS
0WH231Z	Insertion of Radioactive Element into Face, Percutaneous Approach	Procedure	ICD-10-PCS
0WH241Z	Insertion of Radioactive Element into Face, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WH001Z	Insertion of Radioactive Element into Head, Open Approach	Procedure	ICD-10-PCS
0WH031Z	Insertion of Radioactive Element into Head, Percutaneous Approach	Procedure	ICD-10-PCS
0WH041Z	Insertion of Radioactive Element into Head, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0HHU01Z	Insertion of Radioactive Element into Left Breast, Open Approach	Procedure	ICD-10-PCS
0HHU31Z	Insertion of Radioactive Element into Left Breast, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OYHN01Z	Insertion of Radioactive Element into Left Foot, Open Approach	Procedure	ICD-10-PCS
OYHN31Z	Insertion of Radioactive Element into Left Foot, Percutaneous Approach	Procedure	ICD-10-PCS
OBHL01Z	Insertion of Radioactive Element into Left Lung, Open Approach	Procedure	ICD-10-PCS
OHHX01Z	Insertion of Radioactive Element into Left Nipple, Open Approach	Procedure	ICD-10-PCS
OHHX31Z	Insertion of Radioactive Element into Left Nipple, Percutaneous Approach	Procedure	ICD-10-PCS
OWHL01Z	Insertion of Radioactive Element into Lower Back, Open Approach	Procedure	ICD-10-PCS
OWHL31Z	Insertion of Radioactive Element into Lower Back, Percutaneous Approach	Procedure	ICD-10-PCS
OWH501Z	Insertion of Radioactive Element into Lower Jaw, Open Approach	Procedure	ICD-10-PCS
OWH541Z	Insertion of Radioactive Element into Lower Jaw, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWH531Z	Insertion of Radioactive Element into Lower Jaw, Percutaneous Approach	Procedure	ICD-10-PCS
OHHUX1Z	Insertion of Radioactive Element into Left Breast, External Approach	Procedure	ICD-10-PCS
OBHL41Z	Insertion of Radioactive Element into Left Lung, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OHHXX1Z	Insertion of Radioactive Element into Left Nipple, External Approach	Procedure	ICD-10-PCS
OWHC01Z	Insertion of Radioactive Element into Mediastinum, Open Approach	Procedure	ICD-10-PCS
OWHC31Z	Insertion of Radioactive Element into Mediastinum, Percutaneous Approach	Procedure	ICD-10-PCS
OWH601Z	Insertion of Radioactive Element into Neck, Open Approach	Procedure	ICD-10-PCS
OWH631Z	Insertion of Radioactive Element into Neck, Percutaneous Approach	Procedure	ICD-10-PCS
OWHJ01Z	Insertion of Radioactive Element into Pelvic Cavity, Open Approach	Procedure	ICD-10-PCS
OWHJ31Z	Insertion of Radioactive Element into Pelvic Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
OVH001Z	Insertion of Radioactive Element into Prostate, Open Approach	Procedure	ICD-10-PCS
OVH031Z	Insertion of Radioactive Element into Prostate, Percutaneous Approach	Procedure	ICD-10-PCS
ODHP01Z	Insertion of Radioactive Element into Rectum, Open Approach	Procedure	ICD-10-PCS
ODHP31Z	Insertion of Radioactive Element into Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
OHHT01Z	Insertion of Radioactive Element into Right Breast, Open Approach	Procedure	ICD-10-PCS
OHHT31Z	Insertion of Radioactive Element into Right Breast, Percutaneous Approach	Procedure	ICD-10-PCS
OYHM01Z	Insertion of Radioactive Element into Right Foot, Open Approach	Procedure	ICD-10-PCS
OYHM31Z	Insertion of Radioactive Element into Right Foot, Percutaneous Approach	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OBHK01Z	Insertion of Radioactive Element into Right Lung, Open Approach	Procedure	ICD-10-PCS
OBHK31Z	Insertion of Radioactive Element into Right Lung, Percutaneous Approach	Procedure	ICD-10-PCS
OHHW01Z	Insertion of Radioactive Element into Right Nipple, Open Approach	Procedure	ICD-10-PCS
OHHW31Z	Insertion of Radioactive Element into Right Nipple, Percutaneous Approach	Procedure	ICD-10-PCS
OHHTX1Z	Insertion of Radioactive Element into Right Breast, External Approach	Procedure	ICD-10-PCS
OBHK41Z	Insertion of Radioactive Element into Right Lung, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OHHWX1Z	Insertion of Radioactive Element into Right Nipple, External Approach	Procedure	ICD-10-PCS
OWHK01Z	Insertion of Radioactive Element into Upper Back, Open Approach	Procedure	ICD-10-PCS
OWHK31Z	Insertion of Radioactive Element into Upper Back, Percutaneous Approach	Procedure	ICD-10-PCS
OWH401Z	Insertion of Radioactive Element into Upper Jaw, Open Approach	Procedure	ICD-10-PCS
OWH431Z	Insertion of Radioactive Element into Upper Jaw, Percutaneous Approach	Procedure	ICD-10-PCS
OUHGX1Z	Insertion of Radioactive Element into Vagina, External Approach	Procedure	ICD-10-PCS
OUHGO1Z	Insertion of Radioactive Element into Vagina, Open Approach	Procedure	ICD-10-PCS
OUHGX1Z	Insertion of Radioactive Element into Vagina, Percutaneous Approach	Procedure	ICD-10-PCS
OUHGX41Z	Insertion of Radioactive Element into Vagina, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OWHR01Z	Insertion of Radioactive Element into Genitourinary Tract, Open Approach	Procedure	ICD-10-PCS
OFHD01Z	Insertion of Radioactive Element into Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
OFHD31Z	Insertion of Radioactive Element into Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
OFHB71Z	Insertion of Radioactive Element into Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Q004	Introduction of Liquid Brachytherapy Radioisotope into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
D9YDCZZ	Intraoperative Radiation Therapy (IORT) of Nasopharynx	Procedure	ICD-10-PCS
DDY2CZZ	Intraoperative Radiation Therapy (IORT) of Duodenum	Procedure	ICD-10-PCS
DFY1CZZ	Intraoperative Radiation Therapy (IORT) of Gallbladder	Procedure	ICD-10-PCS
DDY8CZZ	Intraoperative Radiation Therapy (IORT) of Anus	Procedure	ICD-10-PCS
DFY2CZZ	Intraoperative Radiation Therapy (IORT) of Bile Ducts	Procedure	ICD-10-PCS
DTY2CZZ	Intraoperative Radiation Therapy (IORT) of Bladder	Procedure	ICD-10-PCS
DUY1CZZ	Intraoperative Radiation Therapy (IORT) of Cervix	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
DDY5CZZ	Intraoperative Radiation Therapy (IORT) of Colon	Procedure	ICD-10-PCS
DDY4CZZ	Intraoperative Radiation Therapy (IORT) of Ileum	Procedure	ICD-10-PCS
DDY3CZZ	Intraoperative Radiation Therapy (IORT) of Jejunum	Procedure	ICD-10-PCS
DTY0CZZ	Intraoperative Radiation Therapy (IORT) of Kidney	Procedure	ICD-10-PCS
D9YBCZZ	Intraoperative Radiation Therapy (IORT) of Larynx	Procedure	ICD-10-PCS
DFY0CZZ	Intraoperative Radiation Therapy (IORT) of Liver	Procedure	ICD-10-PCS
D9Y4CZZ	Intraoperative Radiation Therapy (IORT) of Mouth	Procedure	ICD-10-PCS
DUY0CZZ	Intraoperative Radiation Therapy (IORT) of Ovary	Procedure	ICD-10-PCS
DFY3CZZ	Intraoperative Radiation Therapy (IORT) of Pancreas	Procedure	ICD-10-PCS
D9YCCZZ	Intraoperative Radiation Therapy (IORT) of Pharynx	Procedure	ICD-10-PCS
DDY7CZZ	Intraoperative Radiation Therapy (IORT) of Rectum	Procedure	ICD-10-PCS
DDY1CZZ	Intraoperative Radiation Therapy (IORT) of Stomach	Procedure	ICD-10-PCS
DTY1CZZ	Intraoperative Radiation Therapy (IORT) of Ureter	Procedure	ICD-10-PCS
DTY3CZZ	Intraoperative Radiation Therapy (IORT) of Urethra	Procedure	ICD-10-PCS
DUY2CZZ	Intraoperative Radiation Therapy (IORT) of Uterus	Procedure	ICD-10-PCS
DVY0CZZ	Intraoperative Radiation Therapy (IORT) of Prostate	Procedure	ICD-10-PCS
3E0Q00M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Y30M	Introduction of Antineoplastic, Monoclonal Antibody, into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N805	Introduction of Other Antineoplastic into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0P705	Introduction of Other Antineoplastic into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Y705	Introduction of Other Antineoplastic into Pericardial Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0X0M	Introduction of Antineoplastic, Monoclonal Antibody, into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E0400M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E0430M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0230M	Introduction of Antineoplastic, Monoclonal Antibody, into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E0300M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E0330M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E0130M	Introduction of Antineoplastic, Monoclonal Antibody, into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E0J805	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0J705	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P805	Introduction of Other Antineoplastic into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0Q30M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q70M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P80M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N80M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0M70M	Introduction of Antineoplastic, Monoclonal Antibody, into Peritoneal Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E80M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0Y70M	Introduction of Antineoplastic, Monoclonal Antibody, into Pericardial Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
XW033B3	Introduction of Cytarabine and Daunorubicin Liposome Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW043B3	Introduction of Cytarabine and Daunorubicin Liposome Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW043C3	Introduction of Engineered Autologous Chimeric Antigen Receptor T-cell Immunotherapy into Central Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW033C3	Introduction of Engineered Autologous Chimeric Antigen Receptor T-cell Immunotherapy into Peripheral Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW0DXL5	Introduction of Erdafitinib Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW0DXV5	Introduction of Gilteritinib Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
3E0S302	Introduction of High-dose Interleukin-2 into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R302	Introduction of High-dose Interleukin-2 into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
XW043S5	Introduction of Iobenguane I-131 Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW033S5	Introduction of Iobenguane I-131 Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
3E0P304	Introduction of Liquid Brachytherapy Radioisotope into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y304	Introduction of Liquid Brachytherapy Radioisotope into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R304	Introduction of Liquid Brachytherapy Radioisotope into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0K804	Introduction of Liquid Brachytherapy Radioisotope into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0H704	Introduction of Liquid Brachytherapy Radioisotope into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N704	Introduction of Liquid Brachytherapy Radioisotope into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Y704	Introduction of Liquid Brachytherapy Radioisotope into Pericardial Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0R303	Introduction of Low-dose Interleukin-2 into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0J304	Introduction of Liquid Brachytherapy Radioisotope into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q304	Introduction of Liquid Brachytherapy Radioisotope into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S304	Introduction of Liquid Brachytherapy Radioisotope into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0DX04	Introduction of Liquid Brachytherapy Radioisotope into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E0P704	Introduction of Liquid Brachytherapy Radioisotope into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0K704	Introduction of Liquid Brachytherapy Radioisotope into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0H804	Introduction of Liquid Brachytherapy Radioisotope into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0D704	Introduction of Liquid Brachytherapy Radioisotope into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E804	Introduction of Liquid Brachytherapy Radioisotope into Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0F704	Introduction of Liquid Brachytherapy Radioisotope into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G804	Introduction of Liquid Brachytherapy Radioisotope into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0L704	Introduction of Liquid Brachytherapy Radioisotope into Pleural Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E0J804	Introduction of Liquid Brachytherapy Radioisotope into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0J704	Introduction of Liquid Brachytherapy Radioisotope into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Q704	Introduction of Liquid Brachytherapy Radioisotope into Cranial Cavity and Brain, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P804	Introduction of Liquid Brachytherapy Radioisotope into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N804	Introduction of Liquid Brachytherapy Radioisotope into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0M704	Introduction of Liquid Brachytherapy Radioisotope into Peritoneal Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F804	Introduction of Liquid Brachytherapy Radioisotope into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0S303	Introduction of Low-dose Interleukin-2 into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F805	Introduction of Other Antineoplastic into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0D705	Introduction of Other Antineoplastic into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0L705	Introduction of Other Antineoplastic into Pleural Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E805	Introduction of Other Antineoplastic into Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G805	Introduction of Other Antineoplastic into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0J305	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q005	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Q305	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S305	Introduction of Other Antineoplastic into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H705	Introduction of Other Antineoplastic into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0DX05	Introduction of Other Antineoplastic into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E09705	Introduction of Other Antineoplastic into Nose, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Y305	Introduction of Other Antineoplastic into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E705	Introduction of Other Antineoplastic into Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E00X05	Introduction of Other Antineoplastic into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E0R305	Introduction of Other Antineoplastic into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H805	Introduction of Other Antineoplastic into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N705	Introduction of Other Antineoplastic into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0M705	Introduction of Other Antineoplastic into Peritoneal Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F705	Introduction of Other Antineoplastic into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Q705	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0K705	Introduction of Other Antineoplastic into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P305	Introduction of Other Antineoplastic into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
XW0DXT5	Introduction of Ruxolitinib into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW043Q5	Introduction of Tagraxofusp-erzs Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW033Q5	Introduction of Tagraxofusp-erzs Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW0DXR5	Introduction of Venetoclax Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
3E0D70M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0J80M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0K80M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0H80M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N30M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0M30M	Introduction of Antineoplastic, Monoclonal Antibody, into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G80M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0S30M	Introduction of Antineoplastic, Monoclonal Antibody, into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R30M	Introduction of Antineoplastic, Monoclonal Antibody, into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V30M	Introduction of Antineoplastic, Monoclonal Antibody, into Bones, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E0U30M	Introduction of Antineoplastic, Monoclonal Antibody, into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W30M	Introduction of Antineoplastic, Monoclonal Antibody, into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0J70M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0J30M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0A30M	Introduction of Antineoplastic, Monoclonal Antibody, into Bone Marrow, Percutaneous Approach	Procedure	ICD-10-PCS
3E0600M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E0630M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0BX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, External Approach	Procedure	ICD-10-PCS
3E0B70M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0B30M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0CX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, External Approach	Procedure	ICD-10-PCS
3E0C70M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0C30M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0P70M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0K30M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0K70M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P30M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0DX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E0D30M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS
3E0500M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E0530M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F30M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H70M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N70M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E09X0M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, External Approach	Procedure	ICD-10-PCS
3E0970M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, Via Natural or Artificial Opening	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E0930M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, Percutaneous Approach	Procedure	ICD-10-PCS
3E0L30M	Introduction of Antineoplastic, Monoclonal Antibody, into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0L70M	Introduction of Antineoplastic, Monoclonal Antibody, into Pleural Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E30M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E70M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F70M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F80M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G70M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G30M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H30M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E040WL	Introduction of Immunosuppressive into Central Vein, Open	Procedure	ICD-10-PCS
3E030WL	Introduction of Immunosuppressive into Peripheral Vein, Open	Procedure	ICD-10-PCS
3E033WL	Introduction of Immunosuppressive into Peripheral Vein, Percutaneous	Procedure	ICD-10-PCS
3E043WL	Introduction of Immunosuppressive into Central Vein, Percutaneous	Procedure	ICD-10-PCS
3E060WL	Introduction of Immunosuppressive into Central Artery, Open	Procedure	ICD-10-PCS
3E063WL	Introduction of Immunosuppressive into Central Artery, Percutaneous	Procedure	ICD-10-PCS
3E053WL	Introduction of Immunosuppressive into Peripheral Artery, Percutaneous	Procedure	ICD-10-PCS
3E050WL	Introduction of Immunosuppressive into Peripheral Artery, Open	Procedure	ICD-10-PCS
XW04351	Introduction of Blinatumomab Antineoplastic Immunotherapy into Central Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW03351	Introduction of Blinatumomab Antineoplastic Immunotherapy into Peripheral Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
3E0K805	Introduction of Other Antineoplastic into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0600P	Introduction of Clofarabine into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E0630P	Introduction of Clofarabine into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E0430P	Introduction of Clofarabine into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0400P	Introduction of Clofarabine into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E0500P	Introduction of Clofarabine into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E0530P	Introduction of Clofarabine into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0300P	Introduction of Clofarabine into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E0330P	Introduction of Clofarabine into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04002	Introduction of High-dose Interleukin-2 into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04302	Introduction of High-dose Interleukin-2 into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E03002	Introduction of High-dose Interleukin-2 into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03302	Introduction of High-dose Interleukin-2 into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E06002	Introduction of High-dose Interleukin-2 into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06302	Introduction of High-dose Interleukin-2 into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E05002	Introduction of High-dose Interleukin-2 into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05302	Introduction of High-dose Interleukin-2 into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B304	Introduction of Liquid Brachytherapy Radioisotope into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0C304	Introduction of Liquid Brachytherapy Radioisotope into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U304	Introduction of Liquid Brachytherapy Radioisotope into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H304	Introduction of Liquid Brachytherapy Radioisotope into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E304	Introduction of Liquid Brachytherapy Radioisotope into Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G304	Introduction of Liquid Brachytherapy Radioisotope into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0BX04	Introduction of Liquid Brachytherapy Radioisotope into Ear, External Approach	Procedure	ICD-10-PCS
3E0N304	Introduction of Liquid Brachytherapy Radioisotope into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0D304	Introduction of Liquid Brachytherapy Radioisotope into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS
3E06003	Introduction of Low-dose Interleukin-2 into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06303	Introduction of Low-dose Interleukin-2 into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E05003	Introduction of Low-dose Interleukin-2 into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05303	Introduction of Low-dose Interleukin-2 into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E03003	Introduction of Low-dose Interleukin-2 into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03303	Introduction of Low-dose Interleukin-2 into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0CX04	Introduction of Liquid Brachytherapy Radioisotope into Eye, External Approach	Procedure	ICD-10-PCS
3E0K304	Introduction of Liquid Brachytherapy Radioisotope into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F304	Introduction of Liquid Brachytherapy Radioisotope into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B704	Introduction of Liquid Brachytherapy Radioisotope into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0C704	Introduction of Liquid Brachytherapy Radioisotope into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0M304	Introduction of Liquid Brachytherapy Radioisotope into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0L304	Introduction of Liquid Brachytherapy Radioisotope into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E704	Introduction of Liquid Brachytherapy Radioisotope into Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G704	Introduction of Liquid Brachytherapy Radioisotope into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E04003	Introduction of Low-dose Interleukin-2 into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04303	Introduction of Low-dose Interleukin-2 into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0A305	Introduction of Other Antineoplastic into Bone Marrow, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V305	Introduction of Other Antineoplastic into Bones, Percutaneous Approach	Procedure	ICD-10-PCS
3E06305	Introduction of Other Antineoplastic into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06005	Introduction of Other Antineoplastic into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E04005	Introduction of Other Antineoplastic into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04305	Introduction of Other Antineoplastic into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0BX05	Introduction of Other Antineoplastic into Ear, External Approach	Procedure	ICD-10-PCS
3E0B305	Introduction of Other Antineoplastic into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0CX05	Introduction of Other Antineoplastic into Eye, External Approach	Procedure	ICD-10-PCS
3E0C305	Introduction of Other Antineoplastic into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H305	Introduction of Other Antineoplastic into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W305	Introduction of Other Antineoplastic into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N305	Introduction of Other Antineoplastic into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0D305	Introduction of Other Antineoplastic into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
3E09X05	Introduction of Other Antineoplastic into Nose, External Approach	Procedure	ICD-10-PCS
3E09305	Introduction of Other Antineoplastic into Nose, Percutaneous Approach	Procedure	ICD-10-PCS
3E05005	Introduction of Other Antineoplastic into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05305	Introduction of Other Antineoplastic into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E03005	Introduction of Other Antineoplastic into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03305	Introduction of Other Antineoplastic into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0L305	Introduction of Other Antineoplastic into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F305	Introduction of Other Antineoplastic into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E01305	Introduction of Other Antineoplastic into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G305	Introduction of Other Antineoplastic into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B705	Introduction of Other Antineoplastic into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0C705	Introduction of Other Antineoplastic into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0M305	Introduction of Other Antineoplastic into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G705	Introduction of Other Antineoplastic into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E305	Introduction of Other Antineoplastic into Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
3E0K305	Introduction of Other Antineoplastic into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U305	Introduction of Other Antineoplastic into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E02305	Introduction of Other Antineoplastic into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E1M39Z	Irrigation of Peritoneal Cavity using Dialysate, Percutaneous Approach	Procedure	ICD-10-PCS
DW13B7Z	Low Dose Rate (LDR) Brachytherapy of Abdomen using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW13BCZ	Low Dose Rate (LDR) Brachytherapy of Abdomen using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW13B9Z	Low Dose Rate (LDR) Brachytherapy of Abdomen using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW13B8Z	Low Dose Rate (LDR) Brachytherapy of Abdomen using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW13BYZ	Low Dose Rate (LDR) Brachytherapy of Abdomen using Other Isotope	Procedure	ICD-10-PCS
DW13BBZ	Low Dose Rate (LDR) Brachytherapy of Abdomen using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG12BCZ	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG12B7Z	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DG12B8Z	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG12BBZ	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG12B9Z	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF12BCZ	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF12B7Z	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF12B9Z	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF12B8Z	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF12BBZ	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT12B7Z	Low Dose Rate (LDR) Brachytherapy of Bladder using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT12BCZ	Low Dose Rate (LDR) Brachytherapy of Bladder using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT12B9Z	Low Dose Rate (LDR) Brachytherapy of Bladder using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT12B8Z	Low Dose Rate (LDR) Brachytherapy of Bladder using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT12BYZ	Low Dose Rate (LDR) Brachytherapy of Bladder using Other Isotope	Procedure	ICD-10-PCS
DT12BBZ	Low Dose Rate (LDR) Brachytherapy of Bladder using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D710BCZ	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D710B7Z	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D710B9Z	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D710B8Z	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D710BBZ	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D010B7Z	Low Dose Rate (LDR) Brachytherapy of Brain using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D010BCZ	Low Dose Rate (LDR) Brachytherapy of Brain using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D010B9Z	Low Dose Rate (LDR) Brachytherapy of Brain using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D010B8Z	Low Dose Rate (LDR) Brachytherapy of Brain using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D010BYZ	Low Dose Rate (LDR) Brachytherapy of Brain using Other Isotope	Procedure	ICD-10-PCS
D010BBZ	Low Dose Rate (LDR) Brachytherapy of Brain using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D011BCZ	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D011B7Z	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D011B9Z	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D011B8Z	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D011BBZ	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB11B7Z	Low Dose Rate (LDR) Brachytherapy of Bronchus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB11BCZ	Low Dose Rate (LDR) Brachytherapy of Bronchus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB11B9Z	Low Dose Rate (LDR) Brachytherapy of Bronchus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB11B8Z	Low Dose Rate (LDR) Brachytherapy of Bronchus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB11BYZ	Low Dose Rate (LDR) Brachytherapy of Bronchus using Other Isotope	Procedure	ICD-10-PCS
DB11BBZ	Low Dose Rate (LDR) Brachytherapy of Bronchus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU11B7Z	Low Dose Rate (LDR) Brachytherapy of Cervix using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DU11BCZ	Low Dose Rate (LDR) Brachytherapy of Cervix using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU11B9Z	Low Dose Rate (LDR) Brachytherapy of Cervix using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU11B8Z	Low Dose Rate (LDR) Brachytherapy of Cervix using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU11BYZ	Low Dose Rate (LDR) Brachytherapy of Cervix using Other Isotope	Procedure	ICD-10-PCS
DU11BBZ	Low Dose Rate (LDR) Brachytherapy of Cervix using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW12B7Z	Low Dose Rate (LDR) Brachytherapy of Chest using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW12BCZ	Low Dose Rate (LDR) Brachytherapy of Chest using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW12B9Z	Low Dose Rate (LDR) Brachytherapy of Chest using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW12B8Z	Low Dose Rate (LDR) Brachytherapy of Chest using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW12BYZ	Low Dose Rate (LDR) Brachytherapy of Chest using Other Isotope	Procedure	ICD-10-PCS
DW12BBZ	Low Dose Rate (LDR) Brachytherapy of Chest using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB17BCZ	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB17B7Z	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB17B9Z	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB17B8Z	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB17BBZ	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD15B7Z	Low Dose Rate (LDR) Brachytherapy of Colon using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD15BCZ	Low Dose Rate (LDR) Brachytherapy of Colon using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD15B9Z	Low Dose Rate (LDR) Brachytherapy of Colon using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD15B8Z	Low Dose Rate (LDR) Brachytherapy of Colon using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD15BYZ	Low Dose Rate (LDR) Brachytherapy of Colon using Other Isotope	Procedure	ICD-10-PCS
DD15BBZ	Low Dose Rate (LDR) Brachytherapy of Colon using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB18BCZ	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB18B7Z	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB18B9Z	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB18B8Z	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB18BBZ	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD12BCZ	Low Dose Rate (LDR) Brachytherapy of Duodenum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD12B7Z	Low Dose Rate (LDR) Brachytherapy of Duodenum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD12B9Z	Low Dose Rate (LDR) Brachytherapy of Duodenum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD12B8Z	Low Dose Rate (LDR) Brachytherapy of Duodenum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD12BYZ	Low Dose Rate (LDR) Brachytherapy of Duodenum using Other Isotope	Procedure	ICD-10-PCS
DD12BBZ	Low Dose Rate (LDR) Brachytherapy of Duodenum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D910BCZ	Low Dose Rate (LDR) Brachytherapy of Ear using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D910B7Z	Low Dose Rate (LDR) Brachytherapy of Ear using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D910B9Z	Low Dose Rate (LDR) Brachytherapy of Ear using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D910B8Z	Low Dose Rate (LDR) Brachytherapy of Ear using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D910BYZ	Low Dose Rate (LDR) Brachytherapy of Ear using Other Isotope	Procedure	ICD-10-PCS
D910BBZ	Low Dose Rate (LDR) Brachytherapy of Ear using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD10BCZ	Low Dose Rate (LDR) Brachytherapy of Esophagus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD10B7Z	Low Dose Rate (LDR) Brachytherapy of Esophagus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD10B9Z	Low Dose Rate (LDR) Brachytherapy of Esophagus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD10B8Z	Low Dose Rate (LDR) Brachytherapy of Esophagus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD10BBZ	Low Dose Rate (LDR) Brachytherapy of Esophagus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D810BCZ	Low Dose Rate (LDR) Brachytherapy of Eye using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D810B7Z	Low Dose Rate (LDR) Brachytherapy of Eye using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D810B9Z	Low Dose Rate (LDR) Brachytherapy of Eye using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D810B8Z	Low Dose Rate (LDR) Brachytherapy of Eye using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D810BYZ	Low Dose Rate (LDR) Brachytherapy of Eye using Other Isotope	Procedure	ICD-10-PCS
D810BBZ	Low Dose Rate (LDR) Brachytherapy of Eye using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF11BCZ	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF11B7Z	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF11B9Z	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF11B8Z	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF11BBZ	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D918BCZ	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D918B7Z	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D918B9Z	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D918B8Z	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D918BBZ	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW11BYZ	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Other Isotope	Procedure	ICD-10-PCS
DW11BCZ	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DW11B7Z	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW11B9Z	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW11B8Z	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW11BBZ	Low Dose Rate (LDR) Brachytherapy of Head and Neck using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D913BCZ	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D913B7Z	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D913B9Z	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D913B8Z	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D913BBZ	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD14B7Z	Low Dose Rate (LDR) Brachytherapy of Ileum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD14BCZ	Low Dose Rate (LDR) Brachytherapy of Ileum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD14B9Z	Low Dose Rate (LDR) Brachytherapy of Ileum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD14B8Z	Low Dose Rate (LDR) Brachytherapy of Ileum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD14BYZ	Low Dose Rate (LDR) Brachytherapy of Ileum using Other Isotope	Procedure	ICD-10-PCS
DD14BBZ	Low Dose Rate (LDR) Brachytherapy of Ileum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD13B7Z	Low Dose Rate (LDR) Brachytherapy of Jejunum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD13BCZ	Low Dose Rate (LDR) Brachytherapy of Jejunum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD13B9Z	Low Dose Rate (LDR) Brachytherapy of Jejunum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD13B8Z	Low Dose Rate (LDR) Brachytherapy of Jejunum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD13BYZ	Low Dose Rate (LDR) Brachytherapy of Jejunum using Other Isotope	Procedure	ICD-10-PCS
DD13BBZ	Low Dose Rate (LDR) Brachytherapy of Jejunum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT10B7Z	Low Dose Rate (LDR) Brachytherapy of Kidney using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT10BCZ	Low Dose Rate (LDR) Brachytherapy of Kidney using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT10B9Z	Low Dose Rate (LDR) Brachytherapy of Kidney using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT10B8Z	Low Dose Rate (LDR) Brachytherapy of Kidney using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT10BYZ	Low Dose Rate (LDR) Brachytherapy of Kidney using Other Isotope	Procedure	ICD-10-PCS
DT10BBZ	Low Dose Rate (LDR) Brachytherapy of Kidney using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91BB7Z	Low Dose Rate (LDR) Brachytherapy of Larynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91BBCZ	Low Dose Rate (LDR) Brachytherapy of Larynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91BB9Z	Low Dose Rate (LDR) Brachytherapy of Larynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91BB8Z	Low Dose Rate (LDR) Brachytherapy of Larynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91BBYZ	Low Dose Rate (LDR) Brachytherapy of Larynx using Other Isotope	Procedure	ICD-10-PCS
D91BBBZ	Low Dose Rate (LDR) Brachytherapy of Larynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM10BCZ	Low Dose Rate (LDR) Brachytherapy of Left Breast using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DM10B7Z	Low Dose Rate (LDR) Brachytherapy of Left Breast using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DM10B9Z	Low Dose Rate (LDR) Brachytherapy of Left Breast using Iodine 125 (I-125)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DM10B8Z	Low Dose Rate (LDR) Brachytherapy of Left Breast using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DM10BBZ	Low Dose Rate (LDR) Brachytherapy of Left Breast using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF10B7Z	Low Dose Rate (LDR) Brachytherapy of Liver using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF10BCZ	Low Dose Rate (LDR) Brachytherapy of Liver using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF10B9Z	Low Dose Rate (LDR) Brachytherapy of Liver using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF10B8Z	Low Dose Rate (LDR) Brachytherapy of Liver using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF10BYZ	Low Dose Rate (LDR) Brachytherapy of Liver using Other Isotope	Procedure	ICD-10-PCS
DF10BBZ	Low Dose Rate (LDR) Brachytherapy of Liver using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB12BCZ	Low Dose Rate (LDR) Brachytherapy of Lung using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB12B7Z	Low Dose Rate (LDR) Brachytherapy of Lung using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB12B9Z	Low Dose Rate (LDR) Brachytherapy of Lung using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB12B8Z	Low Dose Rate (LDR) Brachytherapy of Lung using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB12BYZ	Low Dose Rate (LDR) Brachytherapy of Lung using Other Isotope	Procedure	ICD-10-PCS
DB12BBZ	Low Dose Rate (LDR) Brachytherapy of Lung using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB16BCZ	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB16B7Z	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB16B9Z	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB16B8Z	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB16BBZ	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D914B7Z	Low Dose Rate (LDR) Brachytherapy of Mouth using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D914BCZ	Low Dose Rate (LDR) Brachytherapy of Mouth using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D914B9Z	Low Dose Rate (LDR) Brachytherapy of Mouth using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D914B8Z	Low Dose Rate (LDR) Brachytherapy of Mouth using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D914BYZ	Low Dose Rate (LDR) Brachytherapy of Mouth using Other Isotope	Procedure	ICD-10-PCS
D914BBZ	Low Dose Rate (LDR) Brachytherapy of Mouth using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91DBCZ	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91DB7Z	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D91DB9Z	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91DB8Z	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91DBBZ	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D911BCZ	Low Dose Rate (LDR) Brachytherapy of Nose using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D911B7Z	Low Dose Rate (LDR) Brachytherapy of Nose using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D911B9Z	Low Dose Rate (LDR) Brachytherapy of Nose using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D911B8Z	Low Dose Rate (LDR) Brachytherapy of Nose using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D911BYZ	Low Dose Rate (LDR) Brachytherapy of Nose using Other Isotope	Procedure	ICD-10-PCS
D911BBZ	Low Dose Rate (LDR) Brachytherapy of Nose using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91FBCZ	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D91FB7Z	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D91FB9Z	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D91FB8Z	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D91FBBZ	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU10B7Z	Low Dose Rate (LDR) Brachytherapy of Ovary using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DU10BCZ	Low Dose Rate (LDR) Brachytherapy of Ovary using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU10B9Z	Low Dose Rate (LDR) Brachytherapy of Ovary using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU10B8Z	Low Dose Rate (LDR) Brachytherapy of Ovary using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU10BYZ	Low Dose Rate (LDR) Brachytherapy of Ovary using Other Isotope	Procedure	ICD-10-PCS
DU10BBZ	Low Dose Rate (LDR) Brachytherapy of Ovary using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DF13B7Z	Low Dose Rate (LDR) Brachytherapy of Pancreas using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DF13BCZ	Low Dose Rate (LDR) Brachytherapy of Pancreas using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DF13B9Z	Low Dose Rate (LDR) Brachytherapy of Pancreas using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF13B8Z	Low Dose Rate (LDR) Brachytherapy of Pancreas using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DF13BBZ	Low Dose Rate (LDR) Brachytherapy of Pancreas using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DW16B7Z	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DW16BCZ	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Californium 252 (Cf-252)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DW16B9Z	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DW16B8Z	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DW16BYZ	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Other Isotope	Procedure	ICD-10-PCS
DW16BBZ	Low Dose Rate (LDR) Brachytherapy of Pelvic Region using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D017BCZ	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D017B7Z	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D017B9Z	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D017B8Z	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D017BBZ	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG11BCZ	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG11B7Z	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG11B9Z	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG11B8Z	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG11BBZ	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB15B7Z	Low Dose Rate (LDR) Brachytherapy of Pleura using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB15BCZ	Low Dose Rate (LDR) Brachytherapy of Pleura using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB15B9Z	Low Dose Rate (LDR) Brachytherapy of Pleura using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB15B8Z	Low Dose Rate (LDR) Brachytherapy of Pleura using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB15BYZ	Low Dose Rate (LDR) Brachytherapy of Pleura using Other Isotope	Procedure	ICD-10-PCS
DB15BBZ	Low Dose Rate (LDR) Brachytherapy of Pleura using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DV10B7Z	Low Dose Rate (LDR) Brachytherapy of Prostate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DV10BCZ	Low Dose Rate (LDR) Brachytherapy of Prostate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DV10B9Z	Low Dose Rate (LDR) Brachytherapy of Prostate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DV10B8Z	Low Dose Rate (LDR) Brachytherapy of Prostate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DV10BYZ	Low Dose Rate (LDR) Brachytherapy of Prostate using Other Isotope	Procedure	ICD-10-PCS
DV10BBZ	Low Dose Rate (LDR) Brachytherapy of Prostate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD17B7Z	Low Dose Rate (LDR) Brachytherapy of Rectum using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DD17BCZ	Low Dose Rate (LDR) Brachytherapy of Rectum using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD17B9Z	Low Dose Rate (LDR) Brachytherapy of Rectum using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD17B8Z	Low Dose Rate (LDR) Brachytherapy of Rectum using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD17BYZ	Low Dose Rate (LDR) Brachytherapy of Rectum using Other Isotope	Procedure	ICD-10-PCS
DD17BBZ	Low Dose Rate (LDR) Brachytherapy of Rectum using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM11BCZ	Low Dose Rate (LDR) Brachytherapy of Right Breast using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DM11B7Z	Low Dose Rate (LDR) Brachytherapy of Right Breast using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DM11B9Z	Low Dose Rate (LDR) Brachytherapy of Right Breast using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DM11B8Z	Low Dose Rate (LDR) Brachytherapy of Right Breast using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DM11BBZ	Low Dose Rate (LDR) Brachytherapy of Right Breast using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D917B7Z	Low Dose Rate (LDR) Brachytherapy of Sinuses using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D917BCZ	Low Dose Rate (LDR) Brachytherapy of Sinuses using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D917B9Z	Low Dose Rate (LDR) Brachytherapy of Sinuses using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D917B8Z	Low Dose Rate (LDR) Brachytherapy of Sinuses using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D917BYZ	Low Dose Rate (LDR) Brachytherapy of Sinuses using Other Isotope	Procedure	ICD-10-PCS
D917BBZ	Low Dose Rate (LDR) Brachytherapy of Sinuses using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D919BCZ	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D919B7Z	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D919B9Z	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D919B8Z	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D919BBZ	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D016BCZ	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D016B7Z	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D016B9Z	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D016B8Z	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D016BBZ	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D712B7Z	Low Dose Rate (LDR) Brachytherapy of Spleen using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D712BCZ	Low Dose Rate (LDR) Brachytherapy of Spleen using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D712B9Z	Low Dose Rate (LDR) Brachytherapy of Spleen using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D712B8Z	Low Dose Rate (LDR) Brachytherapy of Spleen using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D712BYZ	Low Dose Rate (LDR) Brachytherapy of Spleen using Other Isotope	Procedure	ICD-10-PCS
D712BBZ	Low Dose Rate (LDR) Brachytherapy of Spleen using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DD11BCZ	Low Dose Rate (LDR) Brachytherapy of Stomach using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DD11B7Z	Low Dose Rate (LDR) Brachytherapy of Stomach using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DD11B9Z	Low Dose Rate (LDR) Brachytherapy of Stomach using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DD11B8Z	Low Dose Rate (LDR) Brachytherapy of Stomach using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DD11BYZ	Low Dose Rate (LDR) Brachytherapy of Stomach using Other Isotope	Procedure	ICD-10-PCS
DD11BBZ	Low Dose Rate (LDR) Brachytherapy of Stomach using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DV11B7Z	Low Dose Rate (LDR) Brachytherapy of Testis using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DV11BCZ	Low Dose Rate (LDR) Brachytherapy of Testis using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DV11B9Z	Low Dose Rate (LDR) Brachytherapy of Testis using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DV11B8Z	Low Dose Rate (LDR) Brachytherapy of Testis using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DV11BYZ	Low Dose Rate (LDR) Brachytherapy of Testis using Other Isotope	Procedure	ICD-10-PCS
DV11BBZ	Low Dose Rate (LDR) Brachytherapy of Testis using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D711B7Z	Low Dose Rate (LDR) Brachytherapy of Thymus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D711BCZ	Low Dose Rate (LDR) Brachytherapy of Thymus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D711B9Z	Low Dose Rate (LDR) Brachytherapy of Thymus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D711B8Z	Low Dose Rate (LDR) Brachytherapy of Thymus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D711BYZ	Low Dose Rate (LDR) Brachytherapy of Thymus using Other Isotope	Procedure	ICD-10-PCS
D711BBZ	Low Dose Rate (LDR) Brachytherapy of Thymus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG15B7Z	Low Dose Rate (LDR) Brachytherapy of Thyroid using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG15BCZ	Low Dose Rate (LDR) Brachytherapy of Thyroid using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG15B9Z	Low Dose Rate (LDR) Brachytherapy of Thyroid using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG15B8Z	Low Dose Rate (LDR) Brachytherapy of Thyroid using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DG15BYZ	Low Dose Rate (LDR) Brachytherapy of Thyroid using Other Isotope	Procedure	ICD-10-PCS
DG15BBZ	Low Dose Rate (LDR) Brachytherapy of Thyroid using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D915B7Z	Low Dose Rate (LDR) Brachytherapy of Tongue using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D915BCZ	Low Dose Rate (LDR) Brachytherapy of Tongue using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D915B9Z	Low Dose Rate (LDR) Brachytherapy of Tongue using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D915B8Z	Low Dose Rate (LDR) Brachytherapy of Tongue using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D915BYZ	Low Dose Rate (LDR) Brachytherapy of Tongue using Other Isotope	Procedure	ICD-10-PCS
D915BBZ	Low Dose Rate (LDR) Brachytherapy of Tongue using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DB10B7Z	Low Dose Rate (LDR) Brachytherapy of Trachea using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DB10BCZ	Low Dose Rate (LDR) Brachytherapy of Trachea using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DB10B9Z	Low Dose Rate (LDR) Brachytherapy of Trachea using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DB10B8Z	Low Dose Rate (LDR) Brachytherapy of Trachea using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DB10BYZ	Low Dose Rate (LDR) Brachytherapy of Trachea using Other Isotope	Procedure	ICD-10-PCS
DB10BBZ	Low Dose Rate (LDR) Brachytherapy of Trachea using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT11B7Z	Low Dose Rate (LDR) Brachytherapy of Ureter using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT11BCZ	Low Dose Rate (LDR) Brachytherapy of Ureter using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT11B9Z	Low Dose Rate (LDR) Brachytherapy of Ureter using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT11B8Z	Low Dose Rate (LDR) Brachytherapy of Ureter using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT11BYZ	Low Dose Rate (LDR) Brachytherapy of Ureter using Other Isotope	Procedure	ICD-10-PCS
DT11BBZ	Low Dose Rate (LDR) Brachytherapy of Ureter using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DT13B7Z	Low Dose Rate (LDR) Brachytherapy of Urethra using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DT13BCZ	Low Dose Rate (LDR) Brachytherapy of Urethra using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DT13B9Z	Low Dose Rate (LDR) Brachytherapy of Urethra using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DT13B8Z	Low Dose Rate (LDR) Brachytherapy of Urethra using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DT13BYZ	Low Dose Rate (LDR) Brachytherapy of Urethra using Other Isotope	Procedure	ICD-10-PCS
DT13BBZ	Low Dose Rate (LDR) Brachytherapy of Urethra using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DU12B7Z	Low Dose Rate (LDR) Brachytherapy of Uterus using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DU12BCZ	Low Dose Rate (LDR) Brachytherapy of Uterus using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DU12B9Z	Low Dose Rate (LDR) Brachytherapy of Uterus using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DU12B8Z	Low Dose Rate (LDR) Brachytherapy of Uterus using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DU12BYZ	Low Dose Rate (LDR) Brachytherapy of Uterus using Other Isotope	Procedure	ICD-10-PCS
DU12BBZ	Low Dose Rate (LDR) Brachytherapy of Uterus using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D716BYZ	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D716BCZ	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D716B7Z	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D716B9Z	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D716B8Z	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D716BBZ	Low Dose Rate (LDR) Brachytherapy of Abdomen Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG12BYZ	Low Dose Rate (LDR) Brachytherapy of Adrenal Glands using Other Isotope	Procedure	ICD-10-PCS
D714BYZ	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D714BCZ	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D714B7Z	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D714B8Z	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D714BBZ	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D714B9Z	Low Dose Rate (LDR) Brachytherapy of Axillary Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DF12BYZ	Low Dose Rate (LDR) Brachytherapy of Bile Ducts using Other Isotope	Procedure	ICD-10-PCS
D710BYZ	Low Dose Rate (LDR) Brachytherapy of Bone Marrow using Other Isotope	Procedure	ICD-10-PCS
D011BYZ	Low Dose Rate (LDR) Brachytherapy of Brain Stem using Other Isotope	Procedure	ICD-10-PCS
DB17BYZ	Low Dose Rate (LDR) Brachytherapy of Chest Wall using Other Isotope	Procedure	ICD-10-PCS
DB18BYZ	Low Dose Rate (LDR) Brachytherapy of Diaphragm using Other Isotope	Procedure	ICD-10-PCS
DD10BYZ	Low Dose Rate (LDR) Brachytherapy of Esophagus using Other Isotope	Procedure	ICD-10-PCS
DF11BYZ	Low Dose Rate (LDR) Brachytherapy of Gallbladder using Other Isotope	Procedure	ICD-10-PCS
D918BYZ	Low Dose Rate (LDR) Brachytherapy of Hard Palate using Other Isotope	Procedure	ICD-10-PCS
D913BYZ	Low Dose Rate (LDR) Brachytherapy of Hypopharynx using Other Isotope	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D718BYZ	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D718BCZ	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D718B7Z	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D718B9Z	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D718B8Z	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D718BBZ	Low Dose Rate (LDR) Brachytherapy of Inguinal Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM10BYZ	Low Dose Rate (LDR) Brachytherapy of Left Breast using Other Isotope	Procedure	ICD-10-PCS
DB16BYZ	Low Dose Rate (LDR) Brachytherapy of Mediastinum using Other Isotope	Procedure	ICD-10-PCS
D91DBYZ	Low Dose Rate (LDR) Brachytherapy of Nasopharynx using Other Isotope	Procedure	ICD-10-PCS
D713BYZ	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D713BCZ	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D713B7Z	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D713B9Z	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D713B8Z	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D713BBZ	Low Dose Rate (LDR) Brachytherapy of Neck Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D91FBYZ	Low Dose Rate (LDR) Brachytherapy of Oropharynx using Other Isotope	Procedure	ICD-10-PCS
DF13BYZ	Low Dose Rate (LDR) Brachytherapy of Pancreas using Other Isotope	Procedure	ICD-10-PCS
DG14BCZ	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG14B7Z	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG14B9Z	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG14B8Z	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG14BBZ	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D717BYZ	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D717BCZ	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D717B7Z	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D717B9Z	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D717B8Z	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D717BBZ	Low Dose Rate (LDR) Brachytherapy of Pelvis Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D017BYZ	Low Dose Rate (LDR) Brachytherapy of Peripheral Nerve using Other Isotope	Procedure	ICD-10-PCS
DG11BYZ	Low Dose Rate (LDR) Brachytherapy of Pineal Body using Other Isotope	Procedure	ICD-10-PCS
DG10BCZ	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
DG10B7Z	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
DG10B9Z	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Iodine 125 (I-125)	Procedure	ICD-10-PCS
DG10B8Z	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
DG10BBZ	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DM11BYZ	Low Dose Rate (LDR) Brachytherapy of Right Breast using Other Isotope	Procedure	ICD-10-PCS
D916BCZ	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D916B7Z	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D916B9Z	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D916B8Z	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D916BBZ	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
D916BYZ	Low Dose Rate (LDR) Brachytherapy of Salivary Glands using Other Isotope	Procedure	ICD-10-PCS
D919BYZ	Low Dose Rate (LDR) Brachytherapy of Soft Palate using Other Isotope	Procedure	ICD-10-PCS
D016BYZ	Low Dose Rate (LDR) Brachytherapy of Spinal Cord using Other Isotope	Procedure	ICD-10-PCS
D715BYZ	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Other Isotope	Procedure	ICD-10-PCS
D715BCZ	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Californium 252 (Cf-252)	Procedure	ICD-10-PCS
D715B7Z	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Cesium 137 (Cs-137)	Procedure	ICD-10-PCS
D715B9Z	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Iodine 125 (I-125)	Procedure	ICD-10-PCS
D715B8Z	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Iridium 192 (Ir-192)	Procedure	ICD-10-PCS
D715BBZ	Low Dose Rate (LDR) Brachytherapy of Thorax Lymphatics using Palladium 103 (Pd-103)	Procedure	ICD-10-PCS
DG14BYZ	Low Dose Rate (LDR) Brachytherapy of Parathyroid Glands using Other Isotope	Procedure	ICD-10-PCS
DG10BYZ	Low Dose Rate (LDR) Brachytherapy of Pituitary Gland using Other Isotope	Procedure	ICD-10-PCS
BT39	Magnetic Resonance Imaging (MRI) / Kidney Transplant	Procedure	ICD-10-PCS
BT39ZZZ	Magnetic Resonance Imaging (MRI) of Kidney Transplant	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
BT39Y0Z	Magnetic Resonance Imaging (MRI) of Kidney Transplant using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BT39YZZ	Magnetic Resonance Imaging (MRI) of Kidney Transplant using Other Contrast	Procedure	ICD-10-PCS
5A1D00Z	Performance of Urinary Filtration, Single	Procedure	ICD-10-PCS
5A1D80Z	Performance of Urinary Filtration, Prolonged Intermittent, 6-18 hours Per Day	Procedure	ICD-10-PCS
5A1D70Z	Performance of Urinary Filtration, Intermittent, Less than 6 Hours Per Day	Procedure	ICD-10-PCS
5A1D90Z	Performance of Urinary Filtration, Continuous, Greater than 18 hours Per Day	Procedure	ICD-10-PCS
DWY3FZZ	Plaque Radiation of Abdomen	Procedure	ICD-10-PCS
D7Y6FZZ	Plaque Radiation of Abdomen Lymphatics	Procedure	ICD-10-PCS
DGY2FZZ	Plaque Radiation of Adrenal Glands	Procedure	ICD-10-PCS
DDY8FZZ	Plaque Radiation of Anus	Procedure	ICD-10-PCS
D7Y4FZZ	Plaque Radiation of Axillary Lymphatics	Procedure	ICD-10-PCS
DFY2FZZ	Plaque Radiation of Bile Ducts	Procedure	ICD-10-PCS
DTY2FZZ	Plaque Radiation of Bladder	Procedure	ICD-10-PCS
D7Y0FZZ	Plaque Radiation of Bone Marrow	Procedure	ICD-10-PCS
D0Y0FZZ	Plaque Radiation of Brain	Procedure	ICD-10-PCS
D0Y1FZZ	Plaque Radiation of Brain Stem	Procedure	ICD-10-PCS
DBY1FZZ	Plaque Radiation of Bronchus	Procedure	ICD-10-PCS
DUY1FZZ	Plaque Radiation of Cervix	Procedure	ICD-10-PCS
DWY2FZZ	Plaque Radiation of Chest	Procedure	ICD-10-PCS
DBY7FZZ	Plaque Radiation of Chest Wall	Procedure	ICD-10-PCS
DDY5FZZ	Plaque Radiation of Colon	Procedure	ICD-10-PCS
DBY8FZZ	Plaque Radiation of Diaphragm	Procedure	ICD-10-PCS
DDY2FZZ	Plaque Radiation of Duodenum	Procedure	ICD-10-PCS
D9Y0FZZ	Plaque Radiation of Ear	Procedure	ICD-10-PCS
DDY0FZZ	Plaque Radiation of Esophagus	Procedure	ICD-10-PCS
D8Y0FZZ	Plaque Radiation of Eye	Procedure	ICD-10-PCS
DPY9FZZ	Plaque Radiation of Femur	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DFY1FZZ	Plaque Radiation of Gallbladder	Procedure	ICD-10-PCS
D9Y8FZZ	Plaque Radiation of Hard Palate	Procedure	ICD-10-PCS
DWY1FZZ	Plaque Radiation of Head and Neck	Procedure	ICD-10-PCS
DWY4FZZ	Plaque Radiation of Hemibody	Procedure	ICD-10-PCS
DPY6FZZ	Plaque Radiation of Humerus	Procedure	ICD-10-PCS
DDY4FZZ	Plaque Radiation of Ileum	Procedure	ICD-10-PCS
D7Y8FZZ	Plaque Radiation of Inguinal Lymphatics	Procedure	ICD-10-PCS
DDY3FZZ	Plaque Radiation of Jejunum	Procedure	ICD-10-PCS
DTY0FZZ	Plaque Radiation of Kidney	Procedure	ICD-10-PCS
D9YBFZZ	Plaque Radiation of Larynx	Procedure	ICD-10-PCS
DMY0FZZ	Plaque Radiation of Left Breast	Procedure	ICD-10-PCS
DFY0FZZ	Plaque Radiation of Liver	Procedure	ICD-10-PCS
DBY2FZZ	Plaque Radiation of Lung	Procedure	ICD-10-PCS
DPY3FZZ	Plaque Radiation of Mandible	Procedure	ICD-10-PCS
DPY2FZZ	Plaque Radiation of Maxilla	Procedure	ICD-10-PCS
DBY6FZZ	Plaque Radiation of Mediastinum	Procedure	ICD-10-PCS
D9Y4FZZ	Plaque Radiation of Mouth	Procedure	ICD-10-PCS
D9YDFZZ	Plaque Radiation of Nasopharynx	Procedure	ICD-10-PCS
D7Y3FZZ	Plaque Radiation of Neck Lymphatics	Procedure	ICD-10-PCS
D9Y1FZZ	Plaque Radiation of Nose	Procedure	ICD-10-PCS
DPYCFZZ	Plaque Radiation of Other Bone	Procedure	ICD-10-PCS
DUY0FZZ	Plaque Radiation of Ovary	Procedure	ICD-10-PCS
DFY3FZZ	Plaque Radiation of Pancreas	Procedure	ICD-10-PCS
DGY4FZZ	Plaque Radiation of Parathyroid Glands	Procedure	ICD-10-PCS
DPY8FZZ	Plaque Radiation of Pelvic Bones	Procedure	ICD-10-PCS
DWY6FZZ	Plaque Radiation of Pelvic Region	Procedure	ICD-10-PCS
D7Y7FZZ	Plaque Radiation of Pelvis Lymphatics	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D0Y7FZZ	Plaque Radiation of Peripheral Nerve	Procedure	ICD-10-PCS
D9YCFZZ	Plaque Radiation of Pharynx	Procedure	ICD-10-PCS
DGY1FZZ	Plaque Radiation of Pineal Body	Procedure	ICD-10-PCS
DGY0FZZ	Plaque Radiation of Pituitary Gland	Procedure	ICD-10-PCS
DBY5FZZ	Plaque Radiation of Pleura	Procedure	ICD-10-PCS
DVY0FZZ	Plaque Radiation of Prostate	Procedure	ICD-10-PCS
DPY7FZZ	Plaque Radiation of Radius/Ulna	Procedure	ICD-10-PCS
DDY7FZZ	Plaque Radiation of Rectum	Procedure	ICD-10-PCS
DPY5FZZ	Plaque Radiation of Rib(s)	Procedure	ICD-10-PCS
DMY1FZZ	Plaque Radiation of Right Breast	Procedure	ICD-10-PCS
D9Y6FZZ	Plaque Radiation of Salivary Glands	Procedure	ICD-10-PCS
D9Y7FZZ	Plaque Radiation of Sinuses	Procedure	ICD-10-PCS
DPY0FZZ	Plaque Radiation of Skull	Procedure	ICD-10-PCS
D9Y9FZZ	Plaque Radiation of Soft Palate	Procedure	ICD-10-PCS
D0Y6FZZ	Plaque Radiation of Spinal Cord	Procedure	ICD-10-PCS
D7Y2FZZ	Plaque Radiation of Spleen	Procedure	ICD-10-PCS
DPY4FZZ	Plaque Radiation of Sternum	Procedure	ICD-10-PCS
DDY1FZZ	Plaque Radiation of Stomach	Procedure	ICD-10-PCS
DVY1FZZ	Plaque Radiation of Testis	Procedure	ICD-10-PCS
D7Y5FZZ	Plaque Radiation of Thorax Lymphatics	Procedure	ICD-10-PCS
D7Y1FZZ	Plaque Radiation of Thymus	Procedure	ICD-10-PCS
DGY5FZZ	Plaque Radiation of Thyroid	Procedure	ICD-10-PCS
DPYBFZZ	Plaque Radiation of Tibia/Fibula	Procedure	ICD-10-PCS
D9Y5FZZ	Plaque Radiation of Tongue	Procedure	ICD-10-PCS
DBY0FZZ	Plaque Radiation of Trachea	Procedure	ICD-10-PCS
DTY1FZZ	Plaque Radiation of Ureter	Procedure	ICD-10-PCS
DTY3FZZ	Plaque Radiation of Urethra	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
DUY2FZZ	Plaque Radiation of Uterus	Procedure	ICD-10-PCS
DWY5FZZ	Plaque Radiation of Whole Body	Procedure	ICD-10-PCS
30230X4	Transfusion of Allogeneic Unspecified Cord Blood Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30243X2	Transfusion of Allogeneic Related Cord Blood Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30243X3	Transfusion of Allogeneic Unrelated Cord Blood Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30243X4	Transfusion of Allogeneic Unspecified Cord Blood Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30230G2	Transfusion of Allogeneic Related Bone Marrow into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30230X2	Transfusion of Allogeneic Related Cord Blood Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30230G3	Transfusion of Allogeneic Unrelated Bone Marrow into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30230X3	Transfusion of Allogeneic Unrelated Cord Blood Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30230G4	Transfusion of Allogeneic Unspecified Bone Marrow into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30230Y2	Transfusion of Allogeneic Related Hematopoietic Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233Y2	Transfusion of Allogeneic Related Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240X3	Transfusion of Allogeneic Unrelated Cord Blood Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30233X3	Transfusion of Allogeneic Unrelated Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30230Y3	Transfusion of Allogeneic Unrelated Hematopoietic Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233Y3	Transfusion of Allogeneic Unrelated Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30230Y4	Transfusion of Allogeneic Unspecified Hematopoietic Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233X4	Transfusion of Allogeneic Unspecified Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240X4	Transfusion of Allogeneic Unspecified Cord Blood Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30233Y4	Transfusion of Allogeneic Unspecified Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30260X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Artery, Open Approach	Procedure	ICD-10-PCS
30260Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Artery, Open Approach	Procedure	ICD-10-PCS
30263Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
30243Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30250Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
30253Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
30230Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240Y1	Transfusion of Nonautologous Hematopoietic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243G2	Transfusion of Allogeneic Related Bone Marrow into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30233G2	Transfusion of Allogeneic Related Bone Marrow into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240X2	Transfusion of Allogeneic Related Cord Blood Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30233X2	Transfusion of Allogeneic Related Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30243Y2	Transfusion of Allogeneic Related Hematopoietic Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240Y2	Transfusion of Allogeneic Related Hematopoietic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30240G3	Transfusion of Allogeneic Unrelated Bone Marrow into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243G3	Transfusion of Allogeneic Unrelated Bone Marrow into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30233G3	Transfusion of Allogeneic Unrelated Bone Marrow into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240Y3	Transfusion of Allogeneic Unrelated Hematopoietic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243Y3	Transfusion of Allogeneic Unrelated Hematopoietic Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30243Y4	Transfusion of Allogeneic Unspecified Hematopoietic Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240G4	Transfusion of Allogeneic Unspecified Bone Marrow into Central Vein, Open Approach	Procedure	ICD-10-PCS
30240Y4	Transfusion of Allogeneic Unspecified Hematopoietic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243G4	Transfusion of Allogeneic Unspecified Bone Marrow into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30233G4	Transfusion of Allogeneic Unspecified Bone Marrow into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240G2	Transfusion of Allogeneic Related Bone Marrow into Central Vein, Open Approach	Procedure	ICD-10-PCS
30240Y0	Transfusion of Autologous Hematopoietic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30230AZ	Transfusion of Embryonic Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30240AZ	Transfusion of Embryonic Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243AZ	Transfusion of Embryonic Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30233AZ	Transfusion of Embryonic Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30260G1	Transfusion of Nonautologous Bone Marrow into Central Artery, Open Approach	Procedure	ICD-10-PCS
30263G1	Transfusion of Nonautologous Bone Marrow into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
30240G1	Transfusion of Nonautologous Bone Marrow into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243G1	Transfusion of Nonautologous Bone Marrow into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30253G1	Transfusion of Nonautologous Bone Marrow into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
30250G1	Transfusion of Nonautologous Bone Marrow into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
30230G1	Transfusion of Nonautologous Bone Marrow into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233G1	Transfusion of Nonautologous Bone Marrow into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30243X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30253X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
30233X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30263X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
30230X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30250X1	Transfusion of Nonautologous Cord Blood Stem Cells into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
30240X1	Transfusion of Nonautologous Cord Blood Stem Cells into Central Vein, Open Approach	Procedure	ICD-10-PCS
ODYE0Z0	Transplantation of Large Intestine, Allogeneic, Open Approach	Procedure	ICD-10-PCS
ODYE0Z1	Transplantation of Large Intestine, Syngeneic, Open Approach	Procedure	ICD-10-PCS
ODYE0Z2	Transplantation of Large Intestine, Zooplastic, Open Approach	Procedure	ICD-10-PCS
ODY80Z0	Transplantation of Small Intestine, Allogeneic, Open Approach	Procedure	ICD-10-PCS
ODY80Z1	Transplantation of Small Intestine, Syngeneic, Open Approach	Procedure	ICD-10-PCS
ODY80Z2	Transplantation of Small Intestine, Zooplastic, Open Approach	Procedure	ICD-10-PCS
ODY50Z0	Transplantation of Esophagus, Allogeneic, Open Approach	Procedure	ICD-10-PCS
ODY50Z1	Transplantation of Esophagus, Syngeneic, Open Approach	Procedure	ICD-10-PCS
ODY50Z2	Transplantation of Esophagus, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OBYJ0Z0	Transplantation of Left Lower Lung Lobe, Allogeneic, Open Approach	Procedure	ICD-10-PCS
OBYJ0Z1	Transplantation of Left Lower Lung Lobe, Syngeneic, Open Approach	Procedure	ICD-10-PCS
OBYJ0Z2	Transplantation of Left Lower Lung Lobe, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OBYG0Z0	Transplantation of Left Upper Lung Lobe, Allogeneic, Open Approach	Procedure	ICD-10-PCS
OBYG0Z1	Transplantation of Left Upper Lung Lobe, Syngeneic, Open Approach	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
OBYG0Z2	Transplantation of Left Upper Lung Lobe, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OBYF0Z0	Transplantation of Right Lower Lung Lobe, Allogeneic, Open Approach	Procedure	ICD-10-PCS
OBYF0Z1	Transplantation of Right Lower Lung Lobe, Syngeneic, Open Approach	Procedure	ICD-10-PCS
OBYF0Z2	Transplantation of Right Lower Lung Lobe, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OBYD0Z1	Transplantation of Right Middle Lung Lobe, Syngeneic, Open Approach	Procedure	ICD-10-PCS
OBYCOZ0	Transplantation of Right Upper Lung Lobe, Allogeneic, Open Approach	Procedure	ICD-10-PCS
OBYCOZ1	Transplantation of Right Upper Lung Lobe, Syngeneic, Open Approach	Procedure	ICD-10-PCS
OBYCOZ2	Transplantation of Right Upper Lung Lobe, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OBYD0Z0	Transplantation of Right Middle Lung Lobe, Allogeneic, Open Approach	Procedure	ICD-10-PCS
OBYD0Z2	Transplantation of Right Middle Lung Lobe, Zooplastic, Open Approach	Procedure	ICD-10-PCS
OFY00Z0	Transplantation of Liver, Allogeneic, Open Approach	Procedure	ICD-10-PCS
ODY5	Transplantation / Esophagus	Procedure	ICD-10-PCS
ODY	Gastrointestinal System, Transplantation	Procedure	ICD-10-PCS
O2YA	Transplantation / Heart	Procedure	ICD-10-PCS
O2Y	Heart and Great Vessels, Transplantation	Procedure	ICD-10-PCS
OTY1	Transplantation / Kidney, Left	Procedure	ICD-10-PCS
OTY0	Transplantation / Kidney, Right	Procedure	ICD-10-PCS
ODYE	Transplantation / Large Intestine	Procedure	ICD-10-PCS
OFY0	Transplantation / Liver	Procedure	ICD-10-PCS
OBYJ	Transplantation / Lower Lung Lobe, Left	Procedure	ICD-10-PCS
OBYF	Transplantation / Lower Lung Lobe, Right	Procedure	ICD-10-PCS
OBYL	Transplantation / Lung, Left	Procedure	ICD-10-PCS
OBYH	Transplantation / Lung Lingula	Procedure	ICD-10-PCS
OBYK	Transplantation / Lung, Right	Procedure	ICD-10-PCS
OBYM	Transplantation / Lungs, Bilateral	Procedure	ICD-10-PCS
O7Y	Lymphatic and Hemic Systems, Transplantation	Procedure	ICD-10-PCS
OBYD	Transplantation / Middle Lung Lobe, Right	Procedure	ICD-10-PCS



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0FYG	Transplantation / Pancreas	Procedure	ICD-10-PCS
0BY	Respiratory System, Transplantation	Procedure	ICD-10-PCS
0DY8	Transplantation / Small Intestine	Procedure	ICD-10-PCS
07YP	Transplantation / Spleen	Procedure	ICD-10-PCS
0DY6	Transplantation / Stomach	Procedure	ICD-10-PCS
0BYG	Transplantation / Upper Lung Lobe, Left	Procedure	ICD-10-PCS
0BYC	Transplantation / Upper Lung Lobe, Right	Procedure	ICD-10-PCS
0BYM0Z0	Transplantation of Bilateral Lungs, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0BYM0Z1	Transplantation of Bilateral Lungs, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0BYM0Z2	Transplantation of Bilateral Lungs, Zooplastic, Open Approach	Procedure	ICD-10-PCS
02YA0Z0	Transplantation of Heart, Allogeneic, Open Approach	Procedure	ICD-10-PCS
02YA0Z2	Transplantation of Heart, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0FY	Hepatobiliary System and Pancreas, Transplantation	Procedure	ICD-10-PCS
0BYL0Z0	Transplantation of Left Lung, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0BYL0Z1	Transplantation of Left Lung, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0BYL0Z2	Transplantation of Left Lung, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0FY00Z2	Transplantation of Liver, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0BYH0Z0	Transplantation of Lung Lingula, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0BYH0Z1	Transplantation of Lung Lingula, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0BYH0Z2	Transplantation of Lung Lingula, Zooplastic, Open Approach	Procedure	ICD-10-PCS
02YA0Z1	Transplantation of Heart, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0FY00Z1	Transplantation of Liver, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0FYG0Z0	Transplantation of Pancreas, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0FYG0Z2	Transplantation of Pancreas, Zooplastic, Open Approach	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0FYGOZ1	Transplantation of Pancreas, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0BYK0Z0	Transplantation of Right Lung, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0BYK0Z1	Transplantation of Right Lung, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0BYK0Z2	Transplantation of Right Lung, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
07YP0Z0	Transplantation of Spleen, Allogeneic, Open Approach	Procedure	ICD-10-PCS
07YP0Z1	Transplantation of Spleen, Syngeneic, Open Approach	Procedure	ICD-10-PCS
07YP0Z2	Transplantation of Spleen, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0DY60Z0	Transplantation of Stomach, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0DY60Z1	Transplantation of Stomach, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0DY60Z2	Transplantation of Stomach, Zooplastic, Open Approach	Procedure	ICD-10-PCS
BT49	Ultrasonography / Kidney Transplant	Procedure	ICD-10-PCS
BT49ZZZ	Ultrasonography of Kidney Transplant	Procedure	ICD-10-PCS
OTY	Urinary System, Transplantation	Procedure	ICD-10-PCS
<b>High Risk Component: Neurologic and Neurodevelopmental Condition</b>			
G96.11	Dural tear	Diagnosis	ICD-10-CM
S12.000A	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.001A	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.100A	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.101A	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.200A	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S12.200B	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.201A	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.300A	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.300B	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.301A	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.400A	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.401A	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.500A	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.501A	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.600A	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.601A	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.601B	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.9XXA	Fracture of neck, unspecified, initial encounter	Diagnosis	ICD-10-CM
S14.0XXA	Concussion and edema of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.0XXS	Concussion and edema of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.101A	Unspecified injury at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.101S	Unspecified injury at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.102A	Unspecified injury at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.102S	Unspecified injury at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.103A	Unspecified injury at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.103S	Unspecified injury at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.104A	Unspecified injury at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.104S	Unspecified injury at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.105A	Unspecified injury at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.105S	Unspecified injury at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.106A	Unspecified injury at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.106S	Unspecified injury at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.107A	Unspecified injury at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.107S	Unspecified injury at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.108A	Unspecified injury at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.108S	Unspecified injury at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.109A	Unspecified injury at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.109S	Unspecified injury at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.111A	Complete lesion at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.111S	Complete lesion at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.112A	Complete lesion at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.112S	Complete lesion at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.113A	Complete lesion at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.113S	Complete lesion at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.114A	Complete lesion at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.114S	Complete lesion at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.115A	Complete lesion at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.115S	Complete lesion at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.116A	Complete lesion at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.116S	Complete lesion at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.117A	Complete lesion at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.117S	Complete lesion at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.118A	Complete lesion at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.118S	Complete lesion at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.119A	Complete lesion at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.119S	Complete lesion at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.121A	Central cord syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.121S	Central cord syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.122A	Central cord syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.122S	Central cord syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.123A	Central cord syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.123S	Central cord syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.124A	Central cord syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.124S	Central cord syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.125A	Central cord syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.125S	Central cord syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.126A	Central cord syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.126S	Central cord syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.127A	Central cord syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.127S	Central cord syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.128A	Central cord syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.128S	Central cord syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.129A	Central cord syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.129S	Central cord syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.131A	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.131S	Anterior cord syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.132A	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.132S	Anterior cord syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.133A	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.133S	Anterior cord syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.134A	Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.134S	Anterior cord syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.135A	Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.135S	Anterior cord syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.136A	Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.136S	Anterior cord syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.137A	Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.137S	Anterior cord syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.138A	Anterior cord syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.138S	Anterior cord syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.139A	Anterior cord syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.139S	Anterior cord syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.141A	Brown-Sequard syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.141S	Brown-Sequard syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.142A	Brown-Sequard syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.142S	Brown-Sequard syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.143A	Brown-Sequard syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.143S	Brown-Sequard syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.144A	Brown-Sequard syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.144S	Brown-Sequard syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.145A	Brown-Sequard syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.145S	Brown-Sequard syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.146A	Brown-Sequard syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.146S	Brown-Sequard syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.147A	Brown-Sequard syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.147S	Brown-Sequard syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.148A	Brown-Sequard syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.148S	Brown-Sequard syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.149A	Brown-Sequard syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.149S	Brown-Sequard syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.151A	Other incomplete lesion at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.151S	Other incomplete lesion at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.152A	Other incomplete lesion at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.152S	Other incomplete lesion at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.153A	Other incomplete lesion at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.153S	Other incomplete lesion at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.154A	Other incomplete lesion at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.154S	Other incomplete lesion at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.155A	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.155S	Other incomplete lesion at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.156A	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.156S	Other incomplete lesion at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.157A	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.157S	Other incomplete lesion at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.158A	Other incomplete lesion at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.158S	Other incomplete lesion at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.159A	Other incomplete lesion at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.159S	Other incomplete lesion at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S22.009A	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.009B	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S24.0XXA	Concussion and edema of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.0XXS	Concussion and edema of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.101A	Unspecified injury at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.101S	Unspecified injury at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.102A	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.102S	Unspecified injury at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.103A	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.103S	Unspecified injury at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.104A	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.104S	Unspecified injury at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.109A	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.109S	Unspecified injury at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.111A	Complete lesion at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.111S	Complete lesion at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S24.112A	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.112S	Complete lesion at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.113A	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.113S	Complete lesion at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.114A	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.114S	Complete lesion at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.119A	Complete lesion at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.119S	Complete lesion at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.131A	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.131S	Anterior cord syndrome at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.132A	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.132S	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.133A	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.133S	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.134A	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.134S	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.139A	Anterior cord syndrome at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.139S	Anterior cord syndrome at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.141A	Brown-Sequard syndrome at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.141S	Brown-Sequard syndrome at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.142A	Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.142S	Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.143A	Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.143S	Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.144A	Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.144S	Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.149A	Brown-Sequard syndrome at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S24.149S	Brown-Sequard syndrome at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.151A	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.151S	Other incomplete lesion at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.152A	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.152S	Other incomplete lesion at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.153A	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.153S	Other incomplete lesion at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.154S	Other incomplete lesion at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.159A	Other incomplete lesion at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.159S	Other incomplete lesion at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S32.009A	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.009B	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.019A	Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.019B	Unspecified fracture of first lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.029A	Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.029B	Unspecified fracture of second lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.039A	Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.039B	Unspecified fracture of third lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.049A	Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.049B	Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.059A	Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.059B	Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.10XA	Unspecified fracture of sacrum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.2XXA	Fracture of coccyx, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.2XXB	Fracture of coccyx, initial encounter for open fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S34.01XA	Concussion and edema of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.01XS	Concussion and edema of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.02XA	Concussion and edema of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.02XS	Concussion and edema of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.101A	Unspecified injury to L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.101S	Unspecified injury to L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.102A	Unspecified injury to L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.102S	Unspecified injury to L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.103A	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.103S	Unspecified injury to L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.104A	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.104S	Unspecified injury to L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.105A	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.105S	Unspecified injury to L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.109S	Unspecified injury to unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.111A	Complete lesion of L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.111S	Complete lesion of L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.112A	Complete lesion of L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.112S	Complete lesion of L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.113A	Complete lesion of L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.113S	Complete lesion of L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.114A	Complete lesion of L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.114S	Complete lesion of L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.115A	Complete lesion of L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.115S	Complete lesion of L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.119A	Complete lesion of unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S34.119S	Complete lesion of unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.121A	Incomplete lesion of L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.121S	Incomplete lesion of L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.122A	Incomplete lesion of L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.122S	Incomplete lesion of L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.123A	Incomplete lesion of L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.123S	Incomplete lesion of L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.124A	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.124S	Incomplete lesion of L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.125A	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.125S	Incomplete lesion of L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.129A	Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.129S	Incomplete lesion of unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.131A	Complete lesion of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.131S	Complete lesion of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.132A	Incomplete lesion of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.132S	Incomplete lesion of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.139S	Unspecified injury to sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.3XXA	Injury of cauda equina, initial encounter	Diagnosis	ICD-10-CM
G80.0	Spastic quadriplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.1	Spastic diplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.2	Spastic hemiplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.3	Athetoid cerebral palsy	Diagnosis	ICD-10-CM
G80.4	Ataxic cerebral palsy	Diagnosis	ICD-10-CM
G80.8	Other cerebral palsy	Diagnosis	ICD-10-CM
G80.9	Cerebral palsy, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.001	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.009	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.011	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.019	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.101	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.109	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.111	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.119	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.201	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.211	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.219	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.301	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.309	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.311	Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.319	Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.401	Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.409	Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.411	Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.419	Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.42	Cyclin-Dependent Kinase-Like 5 Deficiency Disorder	Diagnosis	ICD-10-CM
G40.501	Epileptic seizures related to external causes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.509	Epileptic seizures related to external causes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.801	Other epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.802	Other epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.803	Other epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.804	Other epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.811	Lennox-Gastaut syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.812	Lennox-Gastaut syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.813	Lennox-Gastaut syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.814	Lennox-Gastaut syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.821	Epileptic spasms, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.822	Epileptic spasms, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.823	Epileptic spasms, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.824	Epileptic spasms, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.833	Dravet syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.834	Dravet syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.89	Other seizures	Diagnosis	ICD-10-CM
G40.901	Epilepsy, unspecified, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.909	Epilepsy, unspecified, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.911	Epilepsy, unspecified, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.919	Epilepsy, unspecified, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A01	Absence epileptic syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.A09	Absence epileptic syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A11	Absence epileptic syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A19	Absence epileptic syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B01	Juvenile myoclonic epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B09	Juvenile myoclonic epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B11	Juvenile myoclonic epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B19	Juvenile myoclonic epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
E78.71	Barth syndrome	Diagnosis	ICD-10-CM
E78.72	Smith-Lemli-Opitz syndrome	Diagnosis	ICD-10-CM
F70	Mild intellectual disabilities	Diagnosis	ICD-10-CM
F71	Moderate intellectual disabilities	Diagnosis	ICD-10-CM
F72	Severe intellectual disabilities	Diagnosis	ICD-10-CM
F73	Profound intellectual disabilities	Diagnosis	ICD-10-CM
F78	Other intellectual disabilities	Diagnosis	ICD-10-CM
F78.A1	SYNGAP1-related intellectual disability	Diagnosis	ICD-10-CM
F78.A9	Other genetic related intellectual disability	Diagnosis	ICD-10-CM
F79	Unspecified intellectual disabilities	Diagnosis	ICD-10-CM
P04.3	Newborn affected by maternal use of alcohol	Diagnosis	ICD-10-CM
Q86.0	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
Q87.1	Congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q87.11	Prader-Willi syndrome	Diagnosis	ICD-10-CM
Q87.19	Other congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q87.2	Congenital malformation syndromes predominantly involving limbs	Diagnosis	ICD-10-CM
Q87.3	Congenital malformation syndromes involving early overgrowth	Diagnosis	ICD-10-CM
Q87.5	Other congenital malformation syndromes with other skeletal changes	Diagnosis	ICD-10-CM
Q87.81	Alport syndrome	Diagnosis	ICD-10-CM
Q87.89	Other specified congenital malformation syndromes, not elsewhere classified	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q89.7	Multiple congenital malformations, not elsewhere classified	Diagnosis	ICD-10-CM
Q89.8	Other specified congenital malformations	Diagnosis	ICD-10-CM
Q90.0	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.1	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.2	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q90.9	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q91.0	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.1	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.2	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q91.3	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q91.4	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.5	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.6	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q91.7	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q92.0	Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q92.1	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q92.2	Partial trisomy	Diagnosis	ICD-10-CM
Q92.5	Duplications with other complex rearrangements	Diagnosis	ICD-10-CM
Q92.61	Marker chromosomes in normal individual	Diagnosis	ICD-10-CM
Q92.62	Marker chromosomes in abnormal individual	Diagnosis	ICD-10-CM
Q92.7	Triploidy and polyploidy	Diagnosis	ICD-10-CM
Q92.8	Other specified trisomies and partial trisomies of autosomes	Diagnosis	ICD-10-CM
Q92.9	Trisomy and partial trisomy of autosomes, unspecified	Diagnosis	ICD-10-CM
Q93.0	Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.1	Whole chromosome monosomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.2	Chromosome replaced with ring, dicentric or isochromosome	Diagnosis	ICD-10-CM
Q93.3	Deletion of short arm of chromosome 4	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q93.4	Deletion of short arm of chromosome 5	Diagnosis	ICD-10-CM
Q93.5	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.51	Angelman syndrome	Diagnosis	ICD-10-CM
Q93.59	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.7	Deletions with other complex rearrangements	Diagnosis	ICD-10-CM
Q93.81	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q93.88	Other microdeletions	Diagnosis	ICD-10-CM
Q93.89	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q93.9	Deletion from autosomes, unspecified	Diagnosis	ICD-10-CM
Q95.2	Balanced autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM
Q95.3	Balanced sex/autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM
Q99.2	Fragile X chromosome	Diagnosis	ICD-10-CM
F81.9	Developmental disorder of scholastic skills, unspecified	Diagnosis	ICD-10-CM
F82	Specific developmental disorder of motor function	Diagnosis	ICD-10-CM
F88	Other disorders of psychological development	Diagnosis	ICD-10-CM
F89	Unspecified disorder of psychological development	Diagnosis	ICD-10-CM
G90.1	Familial dysautonomia [Riley-Day]	Diagnosis	ICD-10-CM
Q00.0	Anencephaly	Diagnosis	ICD-10-CM
Q00.1	Craniorachischisis	Diagnosis	ICD-10-CM
Q00.2	Iniencephaly	Diagnosis	ICD-10-CM
Q01.0	Frontal encephalocele	Diagnosis	ICD-10-CM
Q01.1	Nasofrontal encephalocele	Diagnosis	ICD-10-CM
Q01.2	Occipital encephalocele	Diagnosis	ICD-10-CM
Q01.8	Encephalocele of other sites	Diagnosis	ICD-10-CM
Q01.9	Encephalocele, unspecified	Diagnosis	ICD-10-CM
Q02	Microcephaly	Diagnosis	ICD-10-CM
Q03.0	Malformations of aqueduct of Sylvius	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q03.1	Atresia of foramina of Magendie and Luschka	Diagnosis	ICD-10-CM
Q03.8	Other congenital hydrocephalus	Diagnosis	ICD-10-CM
Q03.9	Congenital hydrocephalus, unspecified	Diagnosis	ICD-10-CM
Q04.0	Congenital malformations of corpus callosum	Diagnosis	ICD-10-CM
Q04.1	Arhinencephaly	Diagnosis	ICD-10-CM
Q04.2	Holoprosencephaly	Diagnosis	ICD-10-CM
Q04.3	Other reduction deformities of brain	Diagnosis	ICD-10-CM
Q04.4	Septo-optic dysplasia of brain	Diagnosis	ICD-10-CM
Q04.5	Megalencephaly	Diagnosis	ICD-10-CM
Q04.6	Congenital cerebral cysts	Diagnosis	ICD-10-CM
Q04.8	Other specified congenital malformations of brain	Diagnosis	ICD-10-CM
Q04.9	Congenital malformation of brain, unspecified	Diagnosis	ICD-10-CM
Q05.0	Cervical spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.1	Thoracic spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.2	Lumbar spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.3	Sacral spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.4	Unspecified spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.5	Cervical spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.6	Thoracic spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.7	Lumbar spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.8	Sacral spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.9	Spina bifida, unspecified	Diagnosis	ICD-10-CM
Q06.0	Amyelia	Diagnosis	ICD-10-CM
Q06.1	Hypoplasia and dysplasia of spinal cord	Diagnosis	ICD-10-CM
Q06.2	Diastematomyelia	Diagnosis	ICD-10-CM
Q06.3	Other congenital cauda equina malformations	Diagnosis	ICD-10-CM
Q06.4	Hydromyelia	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q06.8	Other specified congenital malformations of spinal cord	Diagnosis	ICD-10-CM
Q06.9	Congenital malformation of spinal cord, unspecified	Diagnosis	ICD-10-CM
Q07.00	Arnold-Chiari syndrome without spina bifida or hydrocephalus	Diagnosis	ICD-10-CM
Q07.01	Arnold-Chiari syndrome with spina bifida	Diagnosis	ICD-10-CM
Q07.02	Arnold-Chiari syndrome with hydrocephalus	Diagnosis	ICD-10-CM
Q07.03	Arnold-Chiari syndrome with spina bifida and hydrocephalus	Diagnosis	ICD-10-CM
Q07.8	Other specified congenital malformations of nervous system	Diagnosis	ICD-10-CM
Q07.9	Congenital malformation of nervous system, unspecified	Diagnosis	ICD-10-CM
F07.0	Personality change due to known physiological condition	Diagnosis	ICD-10-CM
F07.81	Postconcussional syndrome	Diagnosis	ICD-10-CM
F07.89	Other personality and behavioral disorders due to known physiological condition	Diagnosis	ICD-10-CM
F48.2	Pseudobulbar affect	Diagnosis	ICD-10-CM
S04.011S	Injury of optic nerve, right eye, sequela	Diagnosis	ICD-10-CM
S04.012S	Injury of optic nerve, left eye, sequela	Diagnosis	ICD-10-CM
S04.019S	Injury of optic nerve, unspecified eye, sequela	Diagnosis	ICD-10-CM
S04.02XS	Injury of optic chiasm, sequela	Diagnosis	ICD-10-CM
S04.031S	Injury of optic tract and pathways, right side, sequela	Diagnosis	ICD-10-CM
S04.032S	Injury of optic tract and pathways, left side, sequela	Diagnosis	ICD-10-CM
S04.039S	Injury of optic tract and pathways, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.041S	Injury of visual cortex, right side, sequela	Diagnosis	ICD-10-CM
S04.042S	Injury of visual cortex, left side, sequela	Diagnosis	ICD-10-CM
S04.049S	Injury of visual cortex, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.10XS	Injury of oculomotor nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.11XS	Injury of oculomotor nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.12XS	Injury of oculomotor nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.20XS	Injury of trochlear nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.21XS	Injury of trochlear nerve, right side, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S04.22XS	Injury of trochlear nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.30XS	Injury of trigeminal nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.31XS	Injury of trigeminal nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.32XS	Injury of trigeminal nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.40XS	Injury of abducent nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.41XS	Injury of abducent nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.42XS	Injury of abducent nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.50XS	Injury of facial nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.51XS	Injury of facial nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.52XS	Injury of facial nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.60XS	Injury of acoustic nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.61XS	Injury of acoustic nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.62XS	Injury of acoustic nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.70XS	Injury of accessory nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.71XS	Injury of accessory nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.72XS	Injury of accessory nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.811S	Injury of olfactory [1st ] nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.812S	Injury of olfactory [1st ] nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.819S	Injury of olfactory [1st ] nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.891S	Injury of other cranial nerves, right side, sequela	Diagnosis	ICD-10-CM
S04.892S	Injury of other cranial nerves, left side, sequela	Diagnosis	ICD-10-CM
S04.899S	Injury of other cranial nerves, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.9XXS	Injury of unspecified cranial nerve, sequela	Diagnosis	ICD-10-CM
S06.0X0S	Concussion without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.0X1S	Concussion with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.0X2S	Concussion with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.0X3S	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.0X4S	Concussion with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.0X5S	Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.0X6S	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.0X7S	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.0X8S	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.0X9S	Concussion with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.1X0S	Traumatic cerebral edema without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X1S	Traumatic cerebral edema with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.1X2S	Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.1X3S	Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.1X4S	Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.1X5S	Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.1X6S	Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.1X7S	Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X8S	Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X9S	Traumatic cerebral edema with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.2X0S	Diffuse traumatic brain injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.2X1S	Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.2X2S	Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.2X3S	Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.2X4S	Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.2X5S	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, sequela	Diagnosis	ICD-10-CM
S06.2X6S	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.2X7S	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.2X8S	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.2X9S	Diffuse traumatic brain injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.300S	Unspecified focal traumatic brain injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.301S	Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.302S	Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.303S	Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.304S	Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.305S	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.306S	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.307S	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.308S	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.309S	Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.310S	Contusion and laceration of right cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.311S	Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.312S	Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.313S	Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.314S	Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.315S	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.316S	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.317S	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.318S	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.319S	Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.320S	Contusion and laceration of left cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.321S	Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.322S	Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.323S	Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.324S	Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.325S	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.326S	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.327S	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.328S	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.329S	Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.330S	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.331S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.332S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.333S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.334S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.335S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.336S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.337S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.338S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.339S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.340S	Traumatic hemorrhage of right cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.341S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.342S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.343S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.344S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.345S	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.346S	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.347S	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.348S	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.349S	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.350S	Traumatic hemorrhage of left cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.351S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.352S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.353S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.354S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.355S	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.356S	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.357S	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.358S	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.359S	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.360S	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.361S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.362S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.363S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.364S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.365S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.366S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.367S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.368S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.369S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.370S	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.371S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.372S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.373S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.374S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.375S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.376S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.377S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.378S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.379S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.380S	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.381S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.382S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.383S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.384S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.385S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.386S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.387S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.388S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.389S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.4X0S	Epidural hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X1S	Epidural hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.4X2S	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.4X3S	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.4X4S	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.4X5S	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.4X6S	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.4X7S	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X8S	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X9S	Epidural hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.5X0S	Traumatic subdural hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X1S	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.5X2S	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.5X3S	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.5X4S	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.5X5S	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.5X6S	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.5X7S	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X8S	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X9S	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.6X0S	Traumatic subarachnoid hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X1S	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.6X2S	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.6X3S	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.6X4S	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.6X5S	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.6X6S	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.6X7S	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X8S	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X9S	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.810S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.811S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.812S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.813S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.814S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.815S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.816S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.817S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.818S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.819S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.820S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.821S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.822S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.823S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.824S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.825S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.826S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.827S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.828S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.829S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.890S	Other specified intracranial injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.891S	Other specified intracranial injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.892S	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.893S	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.894S	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.895S	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.896S	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.897S	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.898S	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.899S	Other specified intracranial injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.9X0S	Unspecified intracranial injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X1S	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.9X2S	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.9X3S	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.9X4S	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.9X5S	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.9X6S	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.9X7S	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X8S	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X9S	Unspecified intracranial injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.A0XS	Traumatic brain compression without herniation, sequela	Diagnosis	ICD-10-CM
S06.A1XS	Traumatic brain compression with herniation, sequela	Diagnosis	ICD-10-CM
G71.0	Muscular dystrophy	Diagnosis	ICD-10-CM
G71.00	Muscular dystrophy, unspecified	Diagnosis	ICD-10-CM
G71.01	Duchenne or Becker muscular dystrophy	Diagnosis	ICD-10-CM
G71.02	Facioscapulohumeral muscular dystrophy	Diagnosis	ICD-10-CM
G71.031	Autosomal dominant limb girdle muscular dystrophy	Diagnosis	ICD-10-CM
G71.032	Autosomal recessive limb girdle muscular dystrophy due to calpain-3 dysfunction	Diagnosis	ICD-10-CM
G71.033	Limb girdle muscular dystrophy due to dysferlin dysfunction	Diagnosis	ICD-10-CM
G71.0340	Limb girdle muscular dystrophy due to sarcoglycan dysfunction, unspecified	Diagnosis	ICD-10-CM
G71.0341	Limb girdle muscular dystrophy due to alpha sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.0342	Limb girdle muscular dystrophy due to beta sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.0349	Limb girdle muscular dystrophy due to other sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.035	Limb girdle muscular dystrophy due to anoctamin-5 dysfunction	Diagnosis	ICD-10-CM
G71.038	Other limb girdle muscular dystrophy	Diagnosis	ICD-10-CM
G71.039	Limb girdle muscular dystrophy, unspecified	Diagnosis	ICD-10-CM
G71.09	Other specified muscular dystrophies	Diagnosis	ICD-10-CM
G71.11	Myotonic muscular dystrophy	Diagnosis	ICD-10-CM
G71.2	Congenital myopathies	Diagnosis	ICD-10-CM
G71.20	Congenital myopathy, unspecified	Diagnosis	ICD-10-CM
G71.21	Nemaline myopathy	Diagnosis	ICD-10-CM
G71.220	X-linked myotubular myopathy	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G71.228	Other centronuclear myopathy	Diagnosis	ICD-10-CM
G71.29	Other congenital myopathy	Diagnosis	ICD-10-CM
<b>Spine Injury</b>			
G96.11	Dural tear	Diagnosis	ICD-10-CM
S12.000A	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.001A	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.100A	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.101A	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.200A	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.200B	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.201A	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.300A	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.300B	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.301A	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.400A	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.401A	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.500A	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.501A	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.600A	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.601A	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S12.601B	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S12.9XXA	Fracture of neck, unspecified, initial encounter	Diagnosis	ICD-10-CM
S14.0XXA	Concussion and edema of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.0XXS	Concussion and edema of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.101A	Unspecified injury at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.101S	Unspecified injury at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.102A	Unspecified injury at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.102S	Unspecified injury at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.103A	Unspecified injury at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.103S	Unspecified injury at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.104A	Unspecified injury at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.104S	Unspecified injury at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.105A	Unspecified injury at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.105S	Unspecified injury at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.106A	Unspecified injury at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.106S	Unspecified injury at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.107A	Unspecified injury at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.107S	Unspecified injury at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.108A	Unspecified injury at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.108S	Unspecified injury at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.109A	Unspecified injury at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.109S	Unspecified injury at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.111A	Complete lesion at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.111S	Complete lesion at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.112A	Complete lesion at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.112S	Complete lesion at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.113A	Complete lesion at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.113S	Complete lesion at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.114A	Complete lesion at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.114S	Complete lesion at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.115A	Complete lesion at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.115S	Complete lesion at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.116A	Complete lesion at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.116S	Complete lesion at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.117A	Complete lesion at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.117S	Complete lesion at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.118A	Complete lesion at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.118S	Complete lesion at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.119A	Complete lesion at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.119S	Complete lesion at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.121A	Central cord syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.121S	Central cord syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.122A	Central cord syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.122S	Central cord syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.123A	Central cord syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.123S	Central cord syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.124A	Central cord syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.124S	Central cord syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.125A	Central cord syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.125S	Central cord syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.126A	Central cord syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.126S	Central cord syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.127A	Central cord syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.127S	Central cord syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.128A	Central cord syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.128S	Central cord syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.129A	Central cord syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.129S	Central cord syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.131A	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.131S	Anterior cord syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.132A	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.132S	Anterior cord syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.133A	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.133S	Anterior cord syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.134A	Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.134S	Anterior cord syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.135A	Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.135S	Anterior cord syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.136A	Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.136S	Anterior cord syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.137A	Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.137S	Anterior cord syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.138A	Anterior cord syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.138S	Anterior cord syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.139A	Anterior cord syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.139S	Anterior cord syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.141A	Brown-Sequard syndrome at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.141S	Brown-Sequard syndrome at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.142A	Brown-Sequard syndrome at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.142S	Brown-Sequard syndrome at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.143A	Brown-Sequard syndrome at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.143S	Brown-Sequard syndrome at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.144A	Brown-Sequard syndrome at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.144S	Brown-Sequard syndrome at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.145A	Brown-Sequard syndrome at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.145S	Brown-Sequard syndrome at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.146A	Brown-Sequard syndrome at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.146S	Brown-Sequard syndrome at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.147A	Brown-Sequard syndrome at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.147S	Brown-Sequard syndrome at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.148A	Brown-Sequard syndrome at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.148S	Brown-Sequard syndrome at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.149A	Brown-Sequard syndrome at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.149S	Brown-Sequard syndrome at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.151A	Other incomplete lesion at C1 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.151S	Other incomplete lesion at C1 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.152A	Other incomplete lesion at C2 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.152S	Other incomplete lesion at C2 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.153A	Other incomplete lesion at C3 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.153S	Other incomplete lesion at C3 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.154A	Other incomplete lesion at C4 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.154S	Other incomplete lesion at C4 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.155A	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.155S	Other incomplete lesion at C5 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S14.156A	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.156S	Other incomplete lesion at C6 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.157A	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.157S	Other incomplete lesion at C7 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.158A	Other incomplete lesion at C8 level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.158S	Other incomplete lesion at C8 level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S14.159A	Other incomplete lesion at unspecified level of cervical spinal cord, initial encounter	Diagnosis	ICD-10-CM
S14.159S	Other incomplete lesion at unspecified level of cervical spinal cord, sequela	Diagnosis	ICD-10-CM
S22.009A	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.009B	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.019B	Unspecified fracture of first thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S24.0XXA	Concussion and edema of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S24.0XXS	Concussion and edema of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.101A	Unspecified injury at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.101S	Unspecified injury at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.102A	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.102S	Unspecified injury at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.103A	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.103S	Unspecified injury at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.104A	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.104S	Unspecified injury at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.109A	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.109S	Unspecified injury at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.111A	Complete lesion at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.111S	Complete lesion at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.112A	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.112S	Complete lesion at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.113A	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.113S	Complete lesion at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.114A	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.114S	Complete lesion at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.119A	Complete lesion at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.119S	Complete lesion at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.131A	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.131S	Anterior cord syndrome at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.132A	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.132S	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.133A	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.133S	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S24.134A	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.134S	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.139A	Anterior cord syndrome at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.139S	Anterior cord syndrome at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.141A	Brown-Sequard syndrome at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.141S	Brown-Sequard syndrome at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.142A	Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.142S	Brown-Sequard syndrome at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.143A	Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.143S	Brown-Sequard syndrome at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.144A	Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.144S	Brown-Sequard syndrome at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.149A	Brown-Sequard syndrome at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.149S	Brown-Sequard syndrome at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.151A	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.151S	Other incomplete lesion at T1 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.152A	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.152S	Other incomplete lesion at T2-T6 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.153A	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.153S	Other incomplete lesion at T7-T10 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.154S	Other incomplete lesion at T11-T12 level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S24.159A	Other incomplete lesion at unspecified level of thoracic spinal cord, initial encounter	Diagnosis	ICD-10-CM
S24.159S	Other incomplete lesion at unspecified level of thoracic spinal cord, sequela	Diagnosis	ICD-10-CM
S32.009A	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.009B	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.019A	Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S32.019B	Unspecified fracture of first lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.029A	Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.029B	Unspecified fracture of second lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.039A	Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.039B	Unspecified fracture of third lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.049A	Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.049B	Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.059A	Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.059B	Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.10XA	Unspecified fracture of sacrum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.2XXA	Fracture of coccyx, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.2XXB	Fracture of coccyx, initial encounter for open fracture	Diagnosis	ICD-10-CM
S34.01XA	Concussion and edema of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.01XS	Concussion and edema of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.02XA	Concussion and edema of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.02XS	Concussion and edema of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.101A	Unspecified injury to L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.101S	Unspecified injury to L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.102A	Unspecified injury to L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.102S	Unspecified injury to L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.103A	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.103S	Unspecified injury to L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.104A	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.104S	Unspecified injury to L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.105A	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.105S	Unspecified injury to L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.109S	Unspecified injury to unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.111A	Complete lesion of L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.111S	Complete lesion of L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.112A	Complete lesion of L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.112S	Complete lesion of L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.113A	Complete lesion of L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.113S	Complete lesion of L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.114A	Complete lesion of L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.114S	Complete lesion of L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.115A	Complete lesion of L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.115S	Complete lesion of L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.119A	Complete lesion of unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.119S	Complete lesion of unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.121A	Incomplete lesion of L1 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.121S	Incomplete lesion of L1 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.122A	Incomplete lesion of L2 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.122S	Incomplete lesion of L2 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.123A	Incomplete lesion of L3 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.123S	Incomplete lesion of L3 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.124A	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.124S	Incomplete lesion of L4 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.125A	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.125S	Incomplete lesion of L5 level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.129A	Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.129S	Incomplete lesion of unspecified level of lumbar spinal cord, sequela	Diagnosis	ICD-10-CM
S34.131A	Complete lesion of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S34.131S	Complete lesion of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.132A	Incomplete lesion of sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.132S	Incomplete lesion of sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	Diagnosis	ICD-10-CM
S34.139S	Unspecified injury to sacral spinal cord, sequela	Diagnosis	ICD-10-CM
S34.3XXA	Injury of cauda equina, initial encounter	Diagnosis	ICD-10-CM
<b>Cerebral Palsy</b>			
G80.0	Spastic quadriplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.1	Spastic diplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.2	Spastic hemiplegic cerebral palsy	Diagnosis	ICD-10-CM
G80.3	Athetoid cerebral palsy	Diagnosis	ICD-10-CM
G80.4	Ataxic cerebral palsy	Diagnosis	ICD-10-CM
G80.8	Other cerebral palsy	Diagnosis	ICD-10-CM
G80.9	Cerebral palsy, unspecified	Diagnosis	ICD-10-CM
<b>Seizure Disorders</b>			
G40.001	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.009	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.011	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.019	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.101	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.109	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.111	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.119	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.201	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.211	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.219	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.301	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.309	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.311	Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.319	Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.401	Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.409	Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.411	Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.419	Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.42	Cyclin-Dependent Kinase-Like 5 Deficiency Disorder	Diagnosis	ICD-10-CM
G40.501	Epileptic seizures related to external causes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.509	Epileptic seizures related to external causes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.801	Other epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.802	Other epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.803	Other epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.804	Other epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.811	Lennox-Gastaut syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.812	Lennox-Gastaut syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.813	Lennox-Gastaut syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.814	Lennox-Gastaut syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.821	Epileptic spasms, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.822	Epileptic spasms, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.823	Epileptic spasms, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.824	Epileptic spasms, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.833	Dravet syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.834	Dravet syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.89	Other seizures	Diagnosis	ICD-10-CM
G40.901	Epilepsy, unspecified, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.909	Epilepsy, unspecified, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.911	Epilepsy, unspecified, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.919	Epilepsy, unspecified, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A01	Absence epileptic syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A09	Absence epileptic syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A11	Absence epileptic syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A19	Absence epileptic syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B01	Juvenile myoclonic epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B09	Juvenile myoclonic epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B11	Juvenile myoclonic epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B19	Juvenile myoclonic epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
<b>Intellectual Disabilities</b>			
E78.71	Barth syndrome	Diagnosis	ICD-10-CM
E78.72	Smith-Lemli-Opitz syndrome	Diagnosis	ICD-10-CM
F70	Mild intellectual disabilities	Diagnosis	ICD-10-CM
F71	Moderate intellectual disabilities	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F72	Severe intellectual disabilities	Diagnosis	ICD-10-CM
F73	Profound intellectual disabilities	Diagnosis	ICD-10-CM
F78	Other intellectual disabilities	Diagnosis	ICD-10-CM
F78.A1	SYNGAP1-related intellectual disability	Diagnosis	ICD-10-CM
F78.A9	Other genetic related intellectual disability	Diagnosis	ICD-10-CM
F79	Unspecified intellectual disabilities	Diagnosis	ICD-10-CM
P04.3	Newborn affected by maternal use of alcohol	Diagnosis	ICD-10-CM
Q86.0	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
Q87.1	Congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q87.11	Prader-Willi syndrome	Diagnosis	ICD-10-CM
Q87.19	Other congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q87.2	Congenital malformation syndromes predominantly involving limbs	Diagnosis	ICD-10-CM
Q87.3	Congenital malformation syndromes involving early overgrowth	Diagnosis	ICD-10-CM
Q87.5	Other congenital malformation syndromes with other skeletal changes	Diagnosis	ICD-10-CM
Q87.81	Alport syndrome	Diagnosis	ICD-10-CM
Q87.89	Other specified congenital malformation syndromes, not elsewhere classified	Diagnosis	ICD-10-CM
Q89.7	Multiple congenital malformations, not elsewhere classified	Diagnosis	ICD-10-CM
Q89.8	Other specified congenital malformations	Diagnosis	ICD-10-CM
Q90.0	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.1	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.2	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q90.9	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q91.0	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.1	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.2	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q91.3	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q91.4	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q91.5	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.6	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q91.7	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q92.0	Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q92.1	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q92.2	Partial trisomy	Diagnosis	ICD-10-CM
Q92.5	Duplications with other complex rearrangements	Diagnosis	ICD-10-CM
Q92.61	Marker chromosomes in normal individual	Diagnosis	ICD-10-CM
Q92.62	Marker chromosomes in abnormal individual	Diagnosis	ICD-10-CM
Q92.7	Triploidy and polyploidy	Diagnosis	ICD-10-CM
Q92.8	Other specified trisomies and partial trisomies of autosomes	Diagnosis	ICD-10-CM
Q92.9	Trisomy and partial trisomy of autosomes, unspecified	Diagnosis	ICD-10-CM
Q93.0	Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.1	Whole chromosome monosomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.2	Chromosome replaced with ring, dicentric or isochromosome	Diagnosis	ICD-10-CM
Q93.3	Deletion of short arm of chromosome 4	Diagnosis	ICD-10-CM
Q93.4	Deletion of short arm of chromosome 5	Diagnosis	ICD-10-CM
Q93.5	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.51	Angelman syndrome	Diagnosis	ICD-10-CM
Q93.59	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.7	Deletions with other complex rearrangements	Diagnosis	ICD-10-CM
Q93.81	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q93.88	Other microdeletions	Diagnosis	ICD-10-CM
Q93.89	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q93.9	Deletion from autosomes, unspecified	Diagnosis	ICD-10-CM
Q95.2	Balanced autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM
Q95.3	Balanced sex/autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q99.2	Fragile X chromosome	Diagnosis	ICD-10-CM
<b>Congenital Disorders</b>			
G90.1	Familial dysautonomia [Riley-Day]	Diagnosis	ICD-10-CM
Q00.0	Anencephaly	Diagnosis	ICD-10-CM
Q00.1	Craniorachischisis	Diagnosis	ICD-10-CM
Q00.2	Iniencephaly	Diagnosis	ICD-10-CM
Q01.0	Frontal encephalocele	Diagnosis	ICD-10-CM
Q01.1	Nasofrontal encephalocele	Diagnosis	ICD-10-CM
Q01.2	Occipital encephalocele	Diagnosis	ICD-10-CM
Q01.8	Encephalocele of other sites	Diagnosis	ICD-10-CM
Q01.9	Encephalocele, unspecified	Diagnosis	ICD-10-CM
Q02	Microcephaly	Diagnosis	ICD-10-CM
Q03.0	Malformations of aqueduct of Sylvius	Diagnosis	ICD-10-CM
Q03.1	Atresia of foramina of Magendie and Luschka	Diagnosis	ICD-10-CM
Q03.8	Other congenital hydrocephalus	Diagnosis	ICD-10-CM
Q03.9	Congenital hydrocephalus, unspecified	Diagnosis	ICD-10-CM
Q04.0	Congenital malformations of corpus callosum	Diagnosis	ICD-10-CM
Q04.1	Arhinencephaly	Diagnosis	ICD-10-CM
Q04.2	Holoprosencephaly	Diagnosis	ICD-10-CM
Q04.3	Other reduction deformities of brain	Diagnosis	ICD-10-CM
Q04.4	Septo-optic dysplasia of brain	Diagnosis	ICD-10-CM
Q04.5	Megalencephaly	Diagnosis	ICD-10-CM
Q04.6	Congenital cerebral cysts	Diagnosis	ICD-10-CM
Q04.8	Other specified congenital malformations of brain	Diagnosis	ICD-10-CM
Q04.9	Congenital malformation of brain, unspecified	Diagnosis	ICD-10-CM
Q05.0	Cervical spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.1	Thoracic spina bifida with hydrocephalus	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q05.2	Lumbar spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.3	Sacral spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.4	Unspecified spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.5	Cervical spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.6	Thoracic spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.7	Lumbar spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.8	Sacral spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.9	Spina bifida, unspecified	Diagnosis	ICD-10-CM
Q06.0	Amyelia	Diagnosis	ICD-10-CM
Q06.1	Hypoplasia and dysplasia of spinal cord	Diagnosis	ICD-10-CM
Q06.2	Diastematomyelia	Diagnosis	ICD-10-CM
Q06.3	Other congenital cauda equina malformations	Diagnosis	ICD-10-CM
Q06.4	Hydromyelia	Diagnosis	ICD-10-CM
Q06.8	Other specified congenital malformations of spinal cord	Diagnosis	ICD-10-CM
Q06.9	Congenital malformation of spinal cord, unspecified	Diagnosis	ICD-10-CM
Q07.00	Arnold-Chiari syndrome without spina bifida or hydrocephalus	Diagnosis	ICD-10-CM
Q07.01	Arnold-Chiari syndrome with spina bifida	Diagnosis	ICD-10-CM
Q07.02	Arnold-Chiari syndrome with hydrocephalus	Diagnosis	ICD-10-CM
Q07.03	Arnold-Chiari syndrome with spina bifida and hydrocephalus	Diagnosis	ICD-10-CM
Q07.8	Other specified congenital malformations of nervous system	Diagnosis	ICD-10-CM
Q07.9	Congenital malformation of nervous system, unspecified	Diagnosis	ICD-10-CM
<b>Other Developmental Disorders</b>			
F81.9	Developmental disorder of scholastic skills, unspecified	Diagnosis	ICD-10-CM
F82	Specific developmental disorder of motor function	Diagnosis	ICD-10-CM
F88	Other disorders of psychological development	Diagnosis	ICD-10-CM
F89	Unspecified disorder of psychological development	Diagnosis	ICD-10-CM
<b>Brain Injury</b>			



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F07.0	Personality change due to known physiological condition	Diagnosis	ICD-10-CM
F07.81	Postconcussional syndrome	Diagnosis	ICD-10-CM
F07.89	Other personality and behavioral disorders due to known physiological condition	Diagnosis	ICD-10-CM
F48.2	Pseudobulbar affect	Diagnosis	ICD-10-CM
S04.011S	Injury of optic nerve, right eye, sequela	Diagnosis	ICD-10-CM
S04.012S	Injury of optic nerve, left eye, sequela	Diagnosis	ICD-10-CM
S04.019S	Injury of optic nerve, unspecified eye, sequela	Diagnosis	ICD-10-CM
S04.02XS	Injury of optic chiasm, sequela	Diagnosis	ICD-10-CM
S04.031S	Injury of optic tract and pathways, right side, sequela	Diagnosis	ICD-10-CM
S04.032S	Injury of optic tract and pathways, left side, sequela	Diagnosis	ICD-10-CM
S04.039S	Injury of optic tract and pathways, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.041S	Injury of visual cortex, right side, sequela	Diagnosis	ICD-10-CM
S04.042S	Injury of visual cortex, left side, sequela	Diagnosis	ICD-10-CM
S04.049S	Injury of visual cortex, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.10XS	Injury of oculomotor nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.11XS	Injury of oculomotor nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.12XS	Injury of oculomotor nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.20XS	Injury of trochlear nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.21XS	Injury of trochlear nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.22XS	Injury of trochlear nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.30XS	Injury of trigeminal nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.31XS	Injury of trigeminal nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.32XS	Injury of trigeminal nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.40XS	Injury of abducent nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.41XS	Injury of abducent nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.42XS	Injury of abducent nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.50XS	Injury of facial nerve, unspecified side, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S04.51XS	Injury of facial nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.52XS	Injury of facial nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.60XS	Injury of acoustic nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.61XS	Injury of acoustic nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.62XS	Injury of acoustic nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.70XS	Injury of accessory nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.71XS	Injury of accessory nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.72XS	Injury of accessory nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.811S	Injury of olfactory [1st ] nerve, right side, sequela	Diagnosis	ICD-10-CM
S04.812S	Injury of olfactory [1st ] nerve, left side, sequela	Diagnosis	ICD-10-CM
S04.819S	Injury of olfactory [1st ] nerve, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.891S	Injury of other cranial nerves, right side, sequela	Diagnosis	ICD-10-CM
S04.892S	Injury of other cranial nerves, left side, sequela	Diagnosis	ICD-10-CM
S04.899S	Injury of other cranial nerves, unspecified side, sequela	Diagnosis	ICD-10-CM
S04.9XXS	Injury of unspecified cranial nerve, sequela	Diagnosis	ICD-10-CM
S06.0X0S	Concussion without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.0X1S	Concussion with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.0X2S	Concussion with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.0X3S	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.0X4S	Concussion with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.0X5S	Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.0X6S	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.0X7S	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.0X8S	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.0X9S	Concussion with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.1X0S	Traumatic cerebral edema without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X1S	Traumatic cerebral edema with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.1X2S	Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.1X3S	Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.1X4S	Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.1X5S	Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.1X6S	Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.1X7S	Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X8S	Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.1X9S	Traumatic cerebral edema with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.2X0S	Diffuse traumatic brain injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.2X1S	Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.2X2S	Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.2X3S	Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.2X4S	Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.2X5S	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, sequela	Diagnosis	ICD-10-CM
S06.2X6S	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.2X7S	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.2X8S	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.2X9S	Diffuse traumatic brain injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.300S	Unspecified focal traumatic brain injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.301S	Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.302S	Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.303S	Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.304S	Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.305S	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.306S	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.307S	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.308S	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.309S	Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.310S	Contusion and laceration of right cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.311S	Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.312S	Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.313S	Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.314S	Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.315S	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.316S	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.317S	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.318S	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.319S	Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.320S	Contusion and laceration of left cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.321S	Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.322S	Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.323S	Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.324S	Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.325S	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.326S	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.327S	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.328S	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.329S	Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.330S	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.331S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.332S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.333S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.334S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.335S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.336S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.337S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
S06.338S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.339S	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.340S	Traumatic hemorrhage of right cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.341S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.342S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.343S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.344S	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.345S	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.346S	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.347S	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.348S	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.349S	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.350S	Traumatic hemorrhage of left cerebrum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.351S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.352S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.353S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.354S	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.355S	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.356S	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.357S	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.358S	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.359S	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.360S	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.361S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.362S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.363S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.364S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.365S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.366S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.367S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.368S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.369S	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.370S	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.371S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.372S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.373S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.374S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.375S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.376S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.377S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.378S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.379S	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.380S	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.381S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.382S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.383S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.384S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.385S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.386S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.387S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.388S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.389S	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.4X0S	Epidural hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X1S	Epidural hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.4X2S	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.4X3S	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.4X4S	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.4X5S	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.4X6S	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.4X7S	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X8S	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.4X9S	Epidural hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.5X0S	Traumatic subdural hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X1S	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.5X2S	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.5X3S	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.5X4S	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.5X5S	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.5X6S	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.5X7S	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X8S	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.5X9S	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.6X0S	Traumatic subarachnoid hemorrhage without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X1S	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.6X2S	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.6X3S	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.6X4S	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.6X5S	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.6X6S	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.6X7S	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X8S	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.6X9S	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.810S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.811S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.812S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.813S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.814S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.815S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.816S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.817S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.818S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.819S	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.820S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.821S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.822S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.823S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.824S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.825S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.826S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.827S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.828S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.829S	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.890S	Other specified intracranial injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.891S	Other specified intracranial injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.892S	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.893S	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.894S	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
S06.895S	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.896S	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.897S	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.898S	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.899S	Other specified intracranial injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.9X0S	Unspecified intracranial injury without loss of consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X1S	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, sequela	Diagnosis	ICD-10-CM
S06.9X2S	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.9X3S	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, sequela	Diagnosis	ICD-10-CM
S06.9X4S	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, sequela	Diagnosis	ICD-10-CM
S06.9X5S	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, sequela	Diagnosis	ICD-10-CM
S06.9X6S	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, sequela	Diagnosis	ICD-10-CM
S06.9X7S	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X8S	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, sequela	Diagnosis	ICD-10-CM
S06.9X9S	Unspecified intracranial injury with loss of consciousness of unspecified duration, sequela	Diagnosis	ICD-10-CM
S06.A0XS	Traumatic brain compression without herniation, sequela	Diagnosis	ICD-10-CM
S06.A1XS	Traumatic brain compression with herniation, sequela	Diagnosis	ICD-10-CM
<b>Muscular Dystrophy</b>			
G71.0	Muscular dystrophy	Diagnosis	ICD-10-CM
G71.00	Muscular dystrophy, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G71.01	Duchenne or Becker muscular dystrophy	Diagnosis	ICD-10-CM
G71.02	Facioscapulohumeral muscular dystrophy	Diagnosis	ICD-10-CM
G71.031	Autosomal dominant limb girdle muscular dystrophy	Diagnosis	ICD-10-CM
G71.032	Autosomal recessive limb girdle muscular dystrophy due to calpain-3 dysfunction	Diagnosis	ICD-10-CM
G71.033	Limb girdle muscular dystrophy due to dysferlin dysfunction	Diagnosis	ICD-10-CM
G71.0340	Limb girdle muscular dystrophy due to sarcoglycan dysfunction, unspecified	Diagnosis	ICD-10-CM
G71.0341	Limb girdle muscular dystrophy due to alpha sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.0342	Limb girdle muscular dystrophy due to beta sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.0349	Limb girdle muscular dystrophy due to other sarcoglycan dysfunction	Diagnosis	ICD-10-CM
G71.035	Limb girdle muscular dystrophy due to anoctamin-5 dysfunction	Diagnosis	ICD-10-CM
G71.038	Other limb girdle muscular dystrophy	Diagnosis	ICD-10-CM
G71.039	Limb girdle muscular dystrophy, unspecified	Diagnosis	ICD-10-CM
G71.09	Other specified muscular dystrophies	Diagnosis	ICD-10-CM
G71.11	Myotonic muscular dystrophy	Diagnosis	ICD-10-CM
G71.2	Congenital myopathies	Diagnosis	ICD-10-CM
G71.20	Congenital myopathy, unspecified	Diagnosis	ICD-10-CM
G71.21	Nemaline myopathy	Diagnosis	ICD-10-CM
G71.220	X-linked myotubular myopathy	Diagnosis	ICD-10-CM
G71.228	Other centronuclear myopathy	Diagnosis	ICD-10-CM
G71.29	Other congenital myopathy	Diagnosis	ICD-10-CM
<b>High Risk Component: Obesity</b>			
E66.01	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E66.09	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E66.1	Drug-induced obesity	Diagnosis	ICD-10-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
E66.8	Other obesity	Diagnosis	ICD-10-CM
E66.9	Obesity, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Z68.30	Body mass index [BMI] 30.0-30.9, adult	Diagnosis	ICD-10-CM
Z68.31	Body mass index [BMI] 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index [BMI] 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index [BMI] 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index [BMI] 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z68.35	Body mass index [BMI] 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z68.36	Body mass index [BMI] 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index [BMI] 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index [BMI] 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index [BMI] 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.41	Body mass index [BMI] 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index [BMI] 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index [BMI] 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index [BMI] 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index [BMI] 70 or greater, adult	Diagnosis	ICD-10-CM
<b>High Risk Component: Tobacco or Nicotine Use</b>			
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
O99.330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
T65.211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65.214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65.224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65.294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Z72.0	Tobacco use	Diagnosis	ICD-10-CM
F17.21	Nicotine dependence, cigarettes	Diagnosis	ICD-10-CM
F17.29	Nicotine dependence, other tobacco product	Diagnosis	ICD-10-CM
Z71.6	Tobacco abuse counseling	Diagnosis	ICD-10-CM
Z87.891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
F17.22	Nicotine dependence, chewing tobacco	Diagnosis	ICD-10-CM
O99.33	Tobacco use disorder complicating pregnancy, childbirth, and the puerperium	Diagnosis	ICD-10-CM
P04.2	Newborn affected by maternal use of tobacco	Diagnosis	ICD-10-CM
T65.2	Toxic effect of tobacco and nicotine	Diagnosis	ICD-10-CM
T65.21	Toxic effect of chewing tobacco	Diagnosis	ICD-10-CM
T65.211	Toxic effect of chewing tobacco, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.211D	Toxic effect of chewing tobacco, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65.211S	Toxic effect of chewing tobacco, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T65.212	Toxic effect of chewing tobacco, intentional self-harm	Diagnosis	ICD-10-CM
T65.212D	Toxic effect of chewing tobacco, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.212S	Toxic effect of chewing tobacco, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.213	Toxic effect of chewing tobacco, assault	Diagnosis	ICD-10-CM
T65.213D	Toxic effect of chewing tobacco, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65.213S	Toxic effect of chewing tobacco, assault, sequela	Diagnosis	ICD-10-CM
T65.214	Toxic effect of chewing tobacco, undetermined	Diagnosis	ICD-10-CM
T65.214D	Toxic effect of chewing tobacco, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65.214S	Toxic effect of chewing tobacco, undetermined, sequela	Diagnosis	ICD-10-CM
T65.22	Toxic effect of tobacco cigarettes	Diagnosis	ICD-10-CM
T65.221	Toxic effect of tobacco cigarettes, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.221D	Toxic effect of tobacco cigarettes, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65.221S	Toxic effect of tobacco cigarettes, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T65.222	Toxic effect of tobacco cigarettes, intentional self-harm	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
T65.222D	Toxic effect of tobacco cigarettes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.222S	Toxic effect of tobacco cigarettes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.223	Toxic effect of tobacco cigarettes, assault	Diagnosis	ICD-10-CM
T65.223D	Toxic effect of tobacco cigarettes, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65.223S	Toxic effect of tobacco cigarettes, assault, sequela	Diagnosis	ICD-10-CM
T65.224	Toxic effect of tobacco cigarettes, undetermined	Diagnosis	ICD-10-CM
T65.224D	Toxic effect of tobacco cigarettes, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65.224S	Toxic effect of tobacco cigarettes, undetermined, sequela	Diagnosis	ICD-10-CM
T65.29	Toxic effect of other tobacco and nicotine	Diagnosis	ICD-10-CM
T65.291	Toxic effect of other tobacco and nicotine, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.291D	Toxic effect of other tobacco and nicotine, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T65.291S	Toxic effect of other tobacco and nicotine, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T65.292	Toxic effect of other tobacco and nicotine, intentional self-harm	Diagnosis	ICD-10-CM
T65.292D	Toxic effect of other tobacco and nicotine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.292S	Toxic effect of other tobacco and nicotine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.293	Toxic effect of other tobacco and nicotine, assault	Diagnosis	ICD-10-CM
T65.293D	Toxic effect of other tobacco and nicotine, assault, subsequent encounter	Diagnosis	ICD-10-CM
T65.293S	Toxic effect of other tobacco and nicotine, assault, sequela	Diagnosis	ICD-10-CM
T65.294	Toxic effect of other tobacco and nicotine, undetermined	Diagnosis	ICD-10-CM
T65.294D	Toxic effect of other tobacco and nicotine, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T65.294S	Toxic effect of other tobacco and nicotine, undetermined, sequela	Diagnosis	ICD-10-CM
4001F	Tobacco use cessation intervention, pharmacologic therapy (COPD, CAD, CAP, PV, Asthma) (DM) (PV)	Procedure	CPT-2
4004F	Patient screened for tobacco use and received tobacco cessation intervention (counseling, pharmacotherapy, or both), if identified as a tobacco user (PV, CAD)	Procedure	CPT-2
1034F	Current tobacco smoker (CAD, CAP, COPD, PV) (DM)	Procedure	CPT-2
1000F	Tobacco use assessed (CAD, CAP, COPD, PV) (DM)	Procedure	CPT-2
1035F	Current smokeless tobacco user (eg, chew, snuff) (PV)	Procedure	CPT-2

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
4000F	Tobacco use cessation intervention, counseling (COPD, CAP, CAD, Asthma) (DM) (PV)	Procedure	CPT-2
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	CPT-4
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	Procedure	CPT-4
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of quitting smoking or tobacco use, assistance with or referral to external smoking or tobacco cessation support programs, or current enrollment in smoking or tobacco use cessation program) if identified as a tobacco user	Procedure	HCPCS
S4995	Smoking cessation gum	Procedure	HCPCS
G9016	Smoking cessation counseling, individual, in the absence of or in addition to any other evaluation and management service, per session (6-10 minutes) [demo project code only]	Procedure	HCPCS
S9453	Smoking cessation classes, nonphysician provider, per session	Procedure	HCPCS
G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	Procedure	HCPCS
G8692	Current smokeless tobacco user (e.g., chew, snuff) and no exposure to secondhand smoke	Procedure	HCPCS
G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	Procedure	HCPCS
G9907	Documentation of medical reason(s) for not providing tobacco cessation intervention on the date of the encounter or within the previous 12 months (e.g., limited life expectancy, other medical reason)	Procedure	HCPCS
G9909	Documentation of medical reason(s) for not providing tobacco cessation intervention on the date of the encounter or within the previous 12 months if identified as a tobacco user (e.g., limited life expectancy, other medical reason)	Procedure	HCPCS
D1320	tobacco counseling for the control and prevention of oral disease	Procedure	HCPCS
G0030	Patient screened for tobacco use and received tobacco cessation intervention during the measurement period or in the 6 months prior to the measurement period (counseling, pharmacotherapy, or both), if identified as a tobacco user	Procedure	HCPCS
G9792	Most recent tobacco status is not tobacco free	Procedure	HCPCS
G9902	Patient screened for tobacco use and identified as a tobacco user	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9906	Patient identified as a tobacco user received tobacco cessation intervention during the measurement period or in the 6 months prior to the measurement period (counseling and/or pharmacotherapy)	Procedure	HCPCS
G9908	Patient identified as tobacco user did not receive tobacco cessation intervention during the measurement period or in the 6 months prior to the measurement period (counseling and/or pharmacotherapy)	Procedure	HCPCS
M1018	Patients with an active diagnosis or history of cancer (except basal cell and squamous cell skin carcinoma), patients who are heavy tobacco smokers, lung cancer screening patients	Procedure	HCPCS
<b>Antiviral Neuraminidase Inhibitor</b>			
G9018	Zanamivir, inhalation powder, administered through inhaler, per 10 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9034	Zanamivir, inhalation powder, administered through inhaler, brand, per 10 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
C9451	Injection, peramivir, 1 mg	Procedure	HCPCS
J2547	Injection, peramivir, 1 mg	Procedure	HCPCS
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
<b>Oseltamivir</b>			
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
<b>Hospitalization</b>			
	Inpatient Hospitalization Stay	Encounter	AD
<b>Pneumococcal Vaccination</b>			
90669	Pneumococcal conjugate vaccine, 7 valent (PCV7), for intramuscular use	Procedure	CPT-4
90670	Pneumococcal conjugate vaccine, 13 valent (PCV13), for intramuscular use	Procedure	CPT-4
90732	Pneumococcal polysaccharide vaccine, 23-valent (PPSV23), adult or immunosuppressed patient dosage, when administered to individuals 2 years or older, for subcutaneous or intramuscular use	Procedure	CPT-4
4040F	Pneumococcal vaccine administered or previously received (COPD) (PV), (IBD)	Procedure	CPT-2
G0009	Administration of pneumococcal vaccine	Procedure	HCPCS
G8864	Pneumococcal vaccine administered or previously received	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
33	pneumococcal polysaccharide PPV23	Procedure	CVX
100	pneumococcal conjugate PCV 7	Procedure	CVX
109	pneumococcal, unspecified formulation	Procedure	CVX
133	Pneumococcal conjugate PCV 13	Procedure	CVX
152	Pneumococcal Conjugate, unspecified formulation	Procedure	CVX
177	PCV10	Procedure	CVX
215	Pneumococcal conjugate PCV15, polysaccharide CRM197 conjugate, adjuvant, PF	Procedure	CVX
216	Pneumococcal conjugate PCV20, polysaccharide CRM197 conjugate, adjuvant, PF	Procedure	CVX
<b>Influenza Vaccination</b>			
3E01340	Introduction of Influenza Vaccine into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E02340	Introduction of Influenza Vaccine into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
4037F	Influenza immunization ordered or administered (COPD, PV, CKD, ESRD)(IBD)	Procedure	CPT-2
4274F	Influenza immunization administered or previously received (HIV) (P-ESRD)	Procedure	CPT-2
90630	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, for intradermal use	Procedure	CPT-4
90653	Influenza vaccine, inactivated (IIV), subunit, adjuvanted, for intramuscular use	Procedure	CPT-4
90654	Influenza virus vaccine, trivalent (IIV3), split virus, preservative-free, for intradermal use	Procedure	CPT-4
90655	Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90656	Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90657	Influenza virus vaccine, trivalent (IIV3), split virus, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90658	Influenza virus vaccine, trivalent (IIV3), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90659	Influenza virus vaccine, whole virus, for intramuscular or jet injection use	Procedure	CPT-4
90660	Influenza virus vaccine, trivalent, live (LAIV3), for intranasal use	Procedure	CPT-4
90661	Influenza virus vaccine, trivalent (ccIIV3), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90662	Influenza virus vaccine (IIV), split virus, preservative free, enhanced immunogenicity via increased antigen content, for intramuscular use	Procedure	CPT-4
90663	Influenza virus vaccine, pandemic formulation, H1N1	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
90664	Influenza virus vaccine, live (LAIV), pandemic formulation, for intranasal use	Procedure	CPT-4
90666	Influenza virus vaccine (IIV), pandemic formulation, split virus, preservative free, for intramuscular use	Procedure	CPT-4
90667	Influenza virus vaccine (IIV), pandemic formulation, split virus, adjuvanted, for intramuscular use	Procedure	CPT-4
90668	Influenza virus vaccine (IIV), pandemic formulation, split virus, for intramuscular use	Procedure	CPT-4
90672	Influenza virus vaccine, quadrivalent, live (LAIV4), for intranasal use	Procedure	CPT-4
90673	Influenza virus vaccine, trivalent (RIV3), derived from recombinant DNA, hemagglutinin (HA) protein only, preservative and antibiotic free, for intramuscular use	Procedure	CPT-4
90674	Influenza virus vaccine, quadrivalent (cclIV4), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90682	Influenza virus vaccine, quadrivalent (RIV4), derived from recombinant DNA, hemagglutinin (HA) protein only, preservative and antibiotic free, for intramuscular use	Procedure	CPT-4
90685	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, 0.25 mL, for intramuscular use	Procedure	CPT-4
90686	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90687	Influenza virus vaccine, quadrivalent (IIV4), split virus, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90688	Influenza virus vaccine, quadrivalent (IIV4), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90689	Influenza virus vaccine quadrivalent (IIV4), inactivated, adjuvanted, preservative free, 0.25 mL dosage, for intramuscular use	Procedure	CPT-4
90694	Influenza virus vaccine, quadrivalent (aIIV4), inactivated, adjuvanted, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90756	Influenza virus vaccine, quadrivalent (cclIV4), derived from cell cultures, subunit, antibiotic free, 0.5mL dosage, for intramuscular use	Procedure	CPT-4
G0008	Administration of influenza virus vaccine	Procedure	HCPCS
G8482	Influenza immunization administered or previously received	Procedure	HCPCS
G8636	Influenza immunization administered or previously received	Procedure	HCPCS
G8639	Influenza immunization was administered or previously received	Procedure	HCPCS
G9141	Influenza A (H1N1) immunization administration (includes the physician counseling the patient/family)	Procedure	HCPCS
G9142	Influenza A (H1N1) vaccine, any route of administration	Procedure	HCPCS
Q0034	Administration of influenza vaccine to Medicare beneficiaries by participating demonstration sites	Procedure	HCPCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q2033	Influenza vaccine, recombinant hemagglutinin antigens, for intramuscular use (Flublok)	Procedure	HCPCS
Q2034	Influenza virus vaccine, split virus, for intramuscular use (Agriflu)	Procedure	HCPCS
Q2035	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (AFLURIA)	Procedure	HCPCS
Q2036	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLULAVAL)	Procedure	HCPCS
Q2037	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLUVIRIN)	Procedure	HCPCS
Q2038	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (Fluzone)	Procedure	HCPCS
Q2039	Influenza virus vaccine, not otherwise specified	Procedure	HCPCS
15	influenza, split (incl. purified surface antigen)	Procedure	CVX
16	influenza, whole	Procedure	CVX
88	influenza, unspecified formulation	Procedure	CVX
111	influenza, live, intranasal	Procedure	CVX
123	influenza, H5N1-1203	Procedure	CVX
125	Novel Influenza-H1N1-09, nasal	Procedure	CVX
126	Novel influenza-H1N1-09, preservative-free	Procedure	CVX
127	Novel influenza-H1N1-09	Procedure	CVX
128	Novel Influenza-H1N1-09, all formulations	Procedure	CVX
135	Influenza, high dose seasonal	Procedure	CVX
140	Influenza, seasonal, injectable, preservative free	Procedure	CVX
141	Influenza, seasonal, injectable	Procedure	CVX
144	influenza, seasonal, intradermal, preservative free	Procedure	CVX
149	influenza, live, intranasal, quadrivalent	Procedure	CVX
150	influenza, injectable, quadrivalent, preservative free	Procedure	CVX
151	influenza nasal, unspecified formulation	Procedure	CVX

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
155	influenza, recombinant, injectable, preservative free	Procedure	CVX
158	influenza, injectable, quadrivalent	Procedure	CVX
160	Influenza A monovalent (H5N1), ADJUVANTED-2013	Procedure	CVX
161	Influenza, injectable, quadrivalent, preservative free, pediatric	Procedure	CVX
166	influenza, intradermal, quadrivalent, preservative free	Procedure	CVX
168	influenza, trivalent, adjuvanted	Procedure	CVX
171	Influenza, injectable, MDCK, preservative free, quadrivalent	Procedure	CVX
185	influenza, recombinant, quadrivalent, injectable, preservative free	Procedure	CVX
186	Influenza, injectable, MDCK, quadrivalent, preservative	Procedure	CVX
194	Influenza, Southern Hemisphere	Procedure	CVX
197	influenza, high-dose, quadrivalent	Procedure	CVX
200	influenza, Southern Hemisphere, pediatric, preservative free	Procedure	CVX
201	influenza, Southern Hemisphere, preservative free	Procedure	CVX
202	influenza, Southern Hemisphere, quadrivalent, with preservative	Procedure	CVX
205	Influenza vaccine, quadrivalent, adjuvanted	Procedure	CVX
231	influenza, Southern Hemisphere, high-dose, quadrivalent	Procedure	CVX
<b>SARS-CoV-2 Vaccination</b>			
91300	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3mL dosage, diluent reconstituted, for intramuscular use	Procedure	CPT-4
91301	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 100 mcg/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91303	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, adenovirus type 26 (Ad26) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91304	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, preservative free, 5 mcg/0.5mL dosage, for intramuscular use	Procedure	CPT-4



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
91305	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91306	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91307	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91308	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91309	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage, for intramuscular use	Procedure	CPT-4
91310	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, monovalent, preservative free, 5 mcg/0.5 mL dosage, adjuvant AS03 emulsion, for intramuscular use	Procedure	CPT-4
91311	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91312	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91313	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 50 mcg/0.5 mL dosage, for intramuscular use	Procedure	CPT-4
91314	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 25 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91315	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91316	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 10 mcg/0.2 mL dosage, for intramuscular use	Procedure	CPT-4



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
91317	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91302	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, chimpanzee adenovirus Oxford 1 (ChAdOx1) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage, for intramuscular use	Procedure	CPT-4
XW013S6	Introduction of COVID-19 Vaccine Dose 1 into Subcutaneous Tissue, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW013T6	Introduction of COVID-19 Vaccine Dose 2 into Subcutaneous Tissue, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW013U6	Introduction of COVID-19 Vaccine into Subcutaneous Tissue, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW023S6	Introduction of COVID-19 Vaccine Dose 1 into Muscle, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW023T6	Introduction of COVID-19 Vaccine Dose 2 into Muscle, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW023U6	Introduction of COVID-19 Vaccine into Muscle, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
0001A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3mL dosage, diluent reconstituted; first dose	Procedure	CPT-4
0002A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3mL dosage, diluent reconstituted; second dose	Procedure	CPT-4
0003A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, diluent reconstituted; third dose	Procedure	CPT-4
0004A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, diluent reconstituted; booster dose	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0011A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 100 mcg/0.5mL dosage; first dose	Procedure	CPT-4
0012A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 100 mcg/0.5mL dosage; second dose	Procedure	CPT-4
0013A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 100 mcg/0.5 mL dosage; third dose	Procedure	CPT-4
0021A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, chimpanzee adenovirus Oxford 1 (ChAdOx1) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage; first dose	Procedure	CPT-4
0022A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, chimpanzee adenovirus Oxford 1 (ChAdOx1) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage; second dose	Procedure	CPT-4
0031A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, adenovirus type 26 (Ad26) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage; single dose	Procedure	CPT-4
0034A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, adenovirus type 26 (Ad26) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage; booster dose	Procedure	CPT-4
0041A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, preservative free, 5 mcg/0.5mL dosage; first dose	Procedure	CPT-4
0042A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, preservative free, 5 mcg/0.5mL dosage; second dose	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0044A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, preservative free, 5 mcg/0.5mL dosage; booster dose	Procedure	CPT-4
0051A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation; first dose	Procedure	CPT-4
0052A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation; second dose	Procedure	CPT-4
0053A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation; third dose	Procedure	CPT-4
0054A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation; booster dose	Procedure	CPT-4
0064A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.25 mL dosage, booster dose	Procedure	CPT-4
0071A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; first dose	Procedure	CPT-4
0072A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; second dose	Procedure	CPT-4
0073A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; third dose	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0074A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; booster dose	Procedure	CPT-4
0081A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; first dose	Procedure	CPT-4
0082A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; second dose	Procedure	CPT-4
0083A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; third dose	Procedure	CPT-4
0091A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage; first dose, when administered to individuals 6 through 11 years	Procedure	CPT-4
0092A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage; second dose, when administered to individuals 6 through 11 years	Procedure	CPT-4
0093A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage; third dose, when administered to individuals 6 through 11 years	Procedure	CPT-4
0094A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage; booster dose, when administered to individuals 18 years and over	Procedure	CPT-4
0104A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, monovalent, preservative free, 5 mcg/0.5 mL dosage, adjuvant AS03 emulsion, booster dose	Procedure	CPT-4

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0111A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25 mcg/0.25 mL dosage; first dose	Procedure	CPT-4
0112A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25 mcg/0.25 mL dosage; second dose	Procedure	CPT-4
0113A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25 mcg/0.25 mL dosage; third dose	Procedure	CPT-4
0124A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation, booster dose	Procedure	CPT-4
0134A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 50 mcg/0.5 mL dosage, booster dose	Procedure	CPT-4
0144A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 25 mcg/0.25 mL dosage, booster dose	Procedure	CPT-4
0154A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, booster dose	Procedure	CPT-4
0164A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 10 mcg/0.2 mL dosage, booster dose	Procedure	CPT-4
0173A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; third dose	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
0174A	Immunization administration by intramuscular injection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation; booster dose	Procedure	CPT-4
91300	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3mL dosage, diluent reconstituted, for intramuscular use	Procedure	CPT-4
91301	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 100 mcg/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91302	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, chimpanzee adenovirus Oxford 1 (ChAdOx1) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91303	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, DNA, spike protein, adenovirus type 26 (Ad26) vector, preservative free, 5x10 <sup>10</sup> viral particles/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91304	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, recombinant spike protein nanoparticle, saponin-based adjuvant, preservative free, 5 mcg/0.5mL dosage, for intramuscular use	Procedure	CPT-4
91305	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91306	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91307	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91308	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91309	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50 mcg/0.5 mL dosage, for intramuscular use	Procedure	CPT-4

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Code	Description	Code Category	Code Type
91310	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, monovalent, preservative free, 5 mcg/0.5 mL dosage, adjuvant AS03 emulsion, for intramuscular use	Procedure	CPT-4
91311	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91312	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 30 mcg/0.3 mL dosage, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91313	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 50 mcg/0.5 mL dosage, for intramuscular use	Procedure	CPT-4
91314	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 25 mcg/0.25 mL dosage, for intramuscular use	Procedure	CPT-4
91315	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
91316	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 10 mcg/0.2 mL dosage, for intramuscular use	Procedure	CPT-4
91317	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, bivalent spike protein, preservative free, 3 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4
207	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	Procedure	CVX
208	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose	Procedure	CVX
210	COVID-19 vaccine, vector-nr, rS-ChAdOx1, PF, 0.5 mL	Procedure	CVX
211	COVID-19, subunit, rS-nanoparticle+Matrix-M1 Adjuvant, PF, 0.5 mL	Procedure	CVX
212	COVID-19 vaccine, vector-nr, rS-Ad26, PF, 0.5 mL	Procedure	CVX
213	SARS-COV-2 (COVID-19) vaccine, UNSPECIFIED	Procedure	CVX
217	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose	Procedure	CVX
218	COVID-19, mRNA, LNP-S, PF, 10 mcg/0.2 mL dose, tris-sucrose	Procedure	CVX
219	COVID-19, mRNA, LNP-S, PF, 3 mcg/0.2 mL dose, tris-sucrose	Procedure	CVX



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
221	COVID-19, mRNA, LNP-S, PF, 50 mcg/0.5 mL dose	Procedure	CVX
225	COVID-19, D614, recomb, preS dTM, AS03 adjuvant add, PF, 5mcg/0.5mL	Procedure	CVX
226	COVID-19, D614, recomb, preS dTM, AS03 adjuvant add, PF, 10mcg/0.5mL	Procedure	CVX
227	COVID-19, mRNA, LNP-S, PF, pediatric 50 mcg/0.5 mL dose	Procedure	CVX
228	COVID-19, mRNA, LNP-S, PF, pediatric 25 mcg/0.25 mL dose	Procedure	CVX
229	COVID-19, mRNA, LNP-S, bivalent, PF, 50 mcg/0.5 mL or 25mcg/0.25 mL dose	Procedure	CVX
230	COVID-19, mRNA, LNP-S, bivalent, PF, 10 mcg/0.2 mL	Procedure	CVX
300	COVID-19, mRNA, LNP-S, bivalent, PF, 30 mcg/0.3 mL dose	Procedure	CVX
301	COVID-19, mRNA, LNP-S, bivalent, PF, 10 mcg/0.2 mL dose	Procedure	CVX
302	COVID-19, mRNA, LNP-S, bivalent, PF, 3 mcg/0.2 mL dose	Procedure	CVX
500	COVID-19 Non-US Vaccine, Product Unknown	Procedure	CVX
501	COVID-19 IV Non-US Vaccine (QAZCOVID-IN)	Procedure	CVX
502	COVID-19 IV Non-US Vaccine (COVAXIN)	Procedure	CVX
503	COVID-19 LAV Non-US Vaccine (COVIVAC)	Procedure	CVX
504	COVID-19 VVnr Non-US Vaccine (Sputnik Light)	Procedure	CVX
505	COVID-19 VVnr Non-US Vaccine (Sputnik V)	Procedure	CVX
506	COVID-19 VVnr Non-US Vaccine (CanSino Biological Inc./Beijing Institute of Biotechnology)	Procedure	CVX
507	COVID-19 PS Non-US Vaccine (Anhui Zhifei Longcom Biopharm + Inst of Micro, Chinese Acad of Sciences)	Procedure	CVX
508	COVID-19 PS Non-US Vaccine (Jiangsu Province Centers for Disease Control and Prevention)	Procedure	CVX
509	COVID-19 PS Non-US Vaccine (EpiVacCorona)	Procedure	CVX
510	COVID-19 IV Non-US Vaccine (BIBP, Sinopharm)	Procedure	CVX
511	COVID-19 IV Non-US Vaccine (CoronaVac, Sinovac)	Procedure	CVX
512	SARS-COV-2 COVID-19 VLP Non-US Vaccine (Medicago, Covifenz)	Procedure	CVX
513	SARS-COV-2 COVID-19 PS Non-US Vaccine (Anhui Zhifei Longcom, Zifivax)	Procedure	CVX
514	SARS-COV-2 COVID-19 DNA Non-US Vaccine (Zydus Cadila, ZyCoV-D)	Procedure	CVX
515	SARS-COV-2 COVID-19 PS Non-US Vaccine (Medigen, MVC-COV1901)	Procedure	CVX
516	COV-2 COVID-19 Inactivated Non-US Vaccine Product (Minhai Biotechnology Co, KCONVAC)	Procedure	CVX



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
517	SARS-COV-2 COVID-19 PS Non-US Vaccine (Biological E Limited, Corbevax)	Procedure	CVX
518	COVID-19 Inactivated, Non-US Vaccine (VLA2001, Valneva)	Procedure	CVX
519	COVID-19 mRNA, bivalent, original/Omicron BA.1, Non-US Vaccine (Spikevax Bivalent), Moderna	Procedure	CVX
520	COVID-19 mRNA, bivalent, original/Omicron BA.1, Non-US Vaccine Product, Pfizer-BioNTech	Procedure	CVX
521	COVID-19 SP, protein-based, adjuvanted (VidPrevtyn Beta), Sanofi-GSK	Procedure	CVX
<b>SARS-CoV-2 Diagnosis</b>			
U07.1	COVID-19, virus identified [code effective April 1, 2020]	Diagnosis	ICD-10-CM
<b>SARS-CoV-2 Legacy Diagnosis</b>			
B97.29	Other coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B34.2	Coronavirus infection, unspecified site	Diagnosis	ICD-10-CM
B97.21	SARS-associated coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
<b>SARS-CoV-2 Laboratory Result</b>			
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
<b>Medically-Attended Acute Respiratory Illness (MAARI)</b>			
J20.6	Acute bronchitis due to rhinovirus	Diagnosis	ICD-10-CM
J20.8	Acute bronchitis due to other specified organisms	Diagnosis	ICD-10-CM
J20.9	Acute bronchitis, unspecified	Diagnosis	ICD-10-CM
J21.8	Acute bronchiolitis due to other specified organisms	Diagnosis	ICD-10-CM
J21.9	Acute bronchiolitis, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
B33.8	Other specified viral diseases	Diagnosis	ICD-10-CM
B34.8	Other viral infections of unspecified site	Diagnosis	ICD-10-CM
B97.89	Other viral agents as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
J00	Acute nasopharyngitis [common cold]	Diagnosis	ICD-10-CM
J02.8	Acute pharyngitis due to other specified organisms	Diagnosis	ICD-10-CM
J02.9	Acute pharyngitis, unspecified	Diagnosis	ICD-10-CM
J03.80	Acute tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.81	Acute recurrent tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.90	Acute tonsillitis, unspecified	Diagnosis	ICD-10-CM
J03.91	Acute recurrent tonsillitis, unspecified	Diagnosis	ICD-10-CM
J04.0	Acute laryngitis	Diagnosis	ICD-10-CM
J04.10	Acute tracheitis without obstruction	Diagnosis	ICD-10-CM
J04.11	Acute tracheitis with obstruction	Diagnosis	ICD-10-CM
J04.2	Acute laryngotracheitis	Diagnosis	ICD-10-CM
J05.0	Acute obstructive laryngitis [croup]	Diagnosis	ICD-10-CM
J06.0	Acute laryngopharyngitis	Diagnosis	ICD-10-CM
J06.9	Acute upper respiratory infection, unspecified	Diagnosis	ICD-10-CM
J39.8	Other specified diseases of upper respiratory tract	Diagnosis	ICD-10-CM
J39.9	Disease of upper respiratory tract, unspecified	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J09	Influenza due to certain identified influenza viruses	Diagnosis	ICD-10-CM
J09.X	Influenza due to identified novel influenza A virus	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J09.X2	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J09.X3	Influenza due to identified novel influenza A virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J09.X9	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-10-CM
J10	Influenza due to other identified influenza virus	Diagnosis	ICD-10-CM
J10.0	Influenza due to other identified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J10.1	Influenza due to other identified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J10.2	Influenza due to other identified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J10.8	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J10.81	Influenza due to other identified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J10.82	Influenza due to other identified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J10.83	Influenza due to other identified influenza virus with otitis media	Diagnosis	ICD-10-CM
J10.89	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11	Influenza due to unidentified influenza virus	Diagnosis	ICD-10-CM
J11.0	Influenza due to unidentified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J11.2	Influenza due to unidentified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J11.8	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11.81	Influenza due to unidentified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J11.82	Influenza due to unidentified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J11.83	Influenza due to unidentified influenza virus with otitis media	Diagnosis	ICD-10-CM
J11.89	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
86710	Influenza A and B antibody serology (complement fixation)	Procedure	CPT-4
87275	Infectious agent antigen detection by immunofluorescent technique; influenza B virus	Procedure	CPT-4
87276	Infectious agent antigen detection by immunofluorescent technique; influenza A virus	Procedure	CPT-4
87400	Infectious agent antigen detection by immunoassay technique, (eg, enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative, multiple-step method; Influenza, A or B, each	Procedure	CPT-4
87501	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, includes reverse transcription, when performed, and amplified probe technique, each type or subtype	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
87502	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, first 2 types or sub-types	Procedure	CPT-4
87503	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, each additional influenza virus type or sub-type beyond 2 (List separately in addition to code for primary procedure)	Procedure	CPT-4
87804	Infectious agent antigen detection by immunoassay with direct optical observation; Influenza	Procedure	CPT-4
U07.1	COVID-19, virus identified [code effective April 1, 2020]	Diagnosis	ICD-10-CM
B97.29	Other coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B34.2	Coronavirus infection, unspecified site	Diagnosis	ICD-10-CM
B97.21	SARS-associated coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
<b>Severe COVID-Like Illness</b>			
B97.29	Other coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
U07.1	COVID-19, virus identified [code effective April 1, 2020]	Diagnosis	ICD-10-CM
B34.2	Coronavirus infection, unspecified site	Diagnosis	ICD-10-CM
B97.21	SARS-associated coronavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 immunoassay, rapid tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / blood specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / serum/plasma specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
SARS_COV_2	Sars Coronavirus-2 sequencing tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
SARS_COV_2	Sars Coronavirus-2 sequencing tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
J22	Unspecified acute lower respiratory infection	Diagnosis	ICD-10-CM
J98.8	Other specified respiratory disorders	Diagnosis	ICD-10-CM
J20.6	Acute bronchitis due to rhinovirus	Diagnosis	ICD-10-CM
J20.8	Acute bronchitis due to other specified organisms	Diagnosis	ICD-10-CM
J20.9	Acute bronchitis, unspecified	Diagnosis	ICD-10-CM
J21.8	Acute bronchiolitis due to other specified organisms	Diagnosis	ICD-10-CM
J21.9	Acute bronchiolitis, unspecified	Diagnosis	ICD-10-CM
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J80	Acute respiratory distress syndrome	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
71010	Radiologic examination, chest; single view, frontal	Procedure	CPT-4
71015	Radiologic examination, chest; stereo, frontal	Procedure	CPT-4
71020	Radiologic examination, chest, 2 views, frontal and lateral;	Procedure	CPT-4
71021	Radiologic examination, chest, 2 views, frontal and lateral; with apical lordotic procedure	Procedure	CPT-4
71022	Radiologic examination, chest, 2 views, frontal and lateral; with oblique projections	Procedure	CPT-4
71023	Radiologic examination, chest, 2 views, frontal and lateral; with fluoroscopy	Procedure	CPT-4
71030	Radiologic examination, chest, complete, minimum of 4 views;	Procedure	CPT-4
71034	Radiologic examination, chest, complete, minimum of 4 views; with fluoroscopy	Procedure	CPT-4
71035	Radiologic examination, chest, special views (eg, lateral decubitus, Bucky studies)	Procedure	CPT-4
71045	Radiologic examination, chest; single view	Procedure	CPT-4
71046	Radiologic examination, chest; 2 views	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
71047	Radiologic examination, chest; 3 views	Procedure	CPT-4
71048	Radiologic examination, chest; 4 or more views	Procedure	CPT-4
71101	Radiologic examination, ribs, unilateral; including posteroanterior chest, minimum of 3 views	Procedure	CPT-4
71111	Radiologic examination, ribs, bilateral; including posteroanterior chest, minimum of 4 views	Procedure	CPT-4
71250	Computed tomography, thorax, diagnostic; without contrast material	Procedure	CPT-4
71260	Computed tomography, thorax, diagnostic; with contrast material(s)	Procedure	CPT-4
71270	Computed tomography, thorax, diagnostic; without contrast material, followed by contrast material(s) and further sections	Procedure	CPT-4
74022	Radiologic examination, complete acute abdomen series, including 2 or more views of the abdomen (eg, supine, erect, decubitus), and a single view chest	Procedure	CPT-4
74220	Radiologic examination, esophagus, including scout chest radiograph(s) and delayed image(s), when performed; single-contrast (eg, barium) study	Procedure	CPT-4
74221	Radiologic examination, esophagus, including scout chest radiograph(s) and delayed image(s), when performed; double-contrast (eg, high-density barium and effervescent agent) study	Procedure	CPT-4
BW03	Plain Radiography / Chest	Procedure	ICD-10-PCS
BW03ZZZ	Plain Radiography of Chest	Procedure	ICD-10-PCS
BW24	Computerized Tomography (CT Scan) / Chest and Abdomen	Procedure	ICD-10-PCS
BW2400Z	Computerized Tomography (CT Scan) of Chest and Abdomen using High Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW240ZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using High Osmolar Contrast	Procedure	ICD-10-PCS
BW2410Z	Computerized Tomography (CT Scan) of Chest and Abdomen using Low Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW241ZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using Low Osmolar Contrast	Procedure	ICD-10-PCS
BW24Y0Z	Computerized Tomography (CT Scan) of Chest and Abdomen using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW24YZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using Other Contrast	Procedure	ICD-10-PCS
BW24ZZZ	Computerized Tomography (CT Scan) of Chest and Abdomen	Procedure	ICD-10-PCS
BW25	Computerized Tomography (CT Scan) / Chest, Abdomen and Pelvis	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
BW2500Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using High Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW250ZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using High Osmolar Contrast	Procedure	ICD-10-PCS
BW2510Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Low Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW251ZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Low Osmolar Contrast	Procedure	ICD-10-PCS
BW25Y0Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW25YZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Other Contrast	Procedure	ICD-10-PCS
BW25ZZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis	Procedure	ICD-10-PCS
<b>Acute Respiratory Distress Syndrome</b>			
J80	Acute respiratory distress syndrome	Diagnosis	ICD-10-CM
<b>Bronchitis</b>			
J20.6	Acute bronchitis due to rhinovirus	Diagnosis	ICD-10-CM
J20.8	Acute bronchitis due to other specified organisms	Diagnosis	ICD-10-CM
J20.9	Acute bronchitis, unspecified	Diagnosis	ICD-10-CM
J21.8	Acute bronchiolitis due to other specified organisms	Diagnosis	ICD-10-CM
J21.9	Acute bronchiolitis, unspecified	Diagnosis	ICD-10-CM
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
<b>Chest X-Ray/CT Scan</b>			
71010	Radiologic examination, chest; single view, frontal	Procedure	CPT-4
71015	Radiologic examination, chest; stereo, frontal	Procedure	CPT-4
71020	Radiologic examination, chest, 2 views, frontal and lateral;	Procedure	CPT-4
71021	Radiologic examination, chest, 2 views, frontal and lateral; with apical lordotic procedure	Procedure	CPT-4
71022	Radiologic examination, chest, 2 views, frontal and lateral; with oblique projections	Procedure	CPT-4
71023	Radiologic examination, chest, 2 views, frontal and lateral; with fluoroscopy	Procedure	CPT-4
71030	Radiologic examination, chest, complete, minimum of 4 views;	Procedure	CPT-4

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code	
		Category	Code Type
71034	Radiologic examination, chest, complete, minimum of 4 views; with fluoroscopy	Procedure	CPT-4
71035	Radiologic examination, chest, special views (eg, lateral decubitus, Bucky studies)	Procedure	CPT-4
71045	Radiologic examination, chest; single view	Procedure	CPT-4
71046	Radiologic examination, chest; 2 views	Procedure	CPT-4
71047	Radiologic examination, chest; 3 views	Procedure	CPT-4
71048	Radiologic examination, chest; 4 or more views	Procedure	CPT-4
71101	Radiologic examination, ribs, unilateral; including posteroanterior chest, minimum of 3 views	Procedure	CPT-4
71111	Radiologic examination, ribs, bilateral; including posteroanterior chest, minimum of 4 views	Procedure	CPT-4
71250	Computed tomography, thorax, diagnostic; without contrast material	Procedure	CPT-4
71260	Computed tomography, thorax, diagnostic; with contrast material(s)	Procedure	CPT-4
71270	Computed tomography, thorax, diagnostic; without contrast material, followed by contrast material(s) and further sections	Procedure	CPT-4
74022	Radiologic examination, complete acute abdomen series, including 2 or more views of the abdomen (eg, supine, erect, decubitus), and a single view chest	Procedure	CPT-4
74220	Radiologic examination, esophagus, including scout chest radiograph(s) and delayed image(s), when performed; single-contrast (eg, barium) study	Procedure	CPT-4
74221	Radiologic examination, esophagus, including scout chest radiograph(s) and delayed image(s), when performed; double-contrast (eg, high-density barium and effervescent agent) study	Procedure	CPT-4
BW03	Plain Radiography / Chest	Procedure	ICD-10-PCS
BW03ZZZ	Plain Radiography of Chest	Procedure	ICD-10-PCS
BW24	Computerized Tomography (CT Scan) / Chest and Abdomen	Procedure	ICD-10-PCS
BW2400Z	Computerized Tomography (CT Scan) of Chest and Abdomen using High Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW240ZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using High Osmolar Contrast	Procedure	ICD-10-PCS
BW2410Z	Computerized Tomography (CT Scan) of Chest and Abdomen using Low Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW241ZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using Low Osmolar Contrast	Procedure	ICD-10-PCS
BW24Y0Z	Computerized Tomography (CT Scan) of Chest and Abdomen using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
BW24YZZ	Computerized Tomography (CT Scan) of Chest and Abdomen using Other Contrast	Procedure	ICD-10-PCS
BW24ZZZ	Computerized Tomography (CT Scan) of Chest and Abdomen	Procedure	ICD-10-PCS
BW25	Computerized Tomography (CT Scan) / Chest, Abdomen and Pelvis	Procedure	ICD-10-PCS
BW2500Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using High Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW250ZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using High Osmolar Contrast	Procedure	ICD-10-PCS
BW2510Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Low Osmolar Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW251ZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Low Osmolar Contrast	Procedure	ICD-10-PCS
BW25Y0Z	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Other Contrast, Unenhanced and Enhanced	Procedure	ICD-10-PCS
BW25YZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis using Other Contrast	Procedure	ICD-10-PCS
BW25ZZZ	Computerized Tomography (CT Scan) of Chest, Abdomen and Pelvis	Procedure	ICD-10-PCS
<b>Pneumonia</b>			
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J15.7	Pneumonia due to <i>Mycoplasma pneumoniae</i>	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
<b>Lower Respiratory Tract Infection</b>			
J22	Unspecified acute lower respiratory infection	Diagnosis	ICD-10-CM
J98.8	Other specified respiratory disorders	Diagnosis	ICD-10-CM
<b>Upper Respiratory Tract Infection</b>			
J00	Acute nasopharyngitis [common cold]	Diagnosis	ICD-10-CM
J02.8	Acute pharyngitis due to other specified organisms	Diagnosis	ICD-10-CM
J02.9	Acute pharyngitis, unspecified	Diagnosis	ICD-10-CM
J03.80	Acute tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.81	Acute recurrent tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J03.90	Acute tonsillitis, unspecified	Diagnosis	ICD-10-CM
J03.91	Acute recurrent tonsillitis, unspecified	Diagnosis	ICD-10-CM
J04.0	Acute laryngitis	Diagnosis	ICD-10-CM
J04.10	Acute tracheitis without obstruction	Diagnosis	ICD-10-CM
J04.11	Acute tracheitis with obstruction	Diagnosis	ICD-10-CM
J04.2	Acute laryngotracheitis	Diagnosis	ICD-10-CM
J05.0	Acute obstructive laryngitis [croup]	Diagnosis	ICD-10-CM
J06.0	Acute laryngopharyngitis	Diagnosis	ICD-10-CM

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J06.9	Acute upper respiratory infection, unspecified	Diagnosis	ICD-10-CM
J39.8	Other specified diseases of upper respiratory tract	Diagnosis	ICD-10-CM
J39.9	Disease of upper respiratory tract, unspecified	Diagnosis	ICD-10-CM
<b>Other Viral Infection</b>			
B33.8	Other specified viral diseases	Diagnosis	ICD-10-CM
B34.8	Other viral infections of unspecified site	Diagnosis	ICD-10-CM
B97.89	Other viral agents as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
<b>Influenza Diagnosis</b>			
J09	Influenza due to certain identified influenza viruses	Diagnosis	ICD-10-CM
J09.X	Influenza due to identified novel influenza A virus	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J09.X2	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J09.X3	Influenza due to identified novel influenza A virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J09.X9	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-10-CM
J10	Influenza due to other identified influenza virus	Diagnosis	ICD-10-CM
J10.0	Influenza due to other identified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM
J10.1	Influenza due to other identified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J10.2	Influenza due to other identified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J10.8	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J10.81	Influenza due to other identified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J10.82	Influenza due to other identified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J10.83	Influenza due to other identified influenza virus with otitis media	Diagnosis	ICD-10-CM
J10.89	Influenza due to other identified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11	Influenza due to unidentified influenza virus	Diagnosis	ICD-10-CM



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
J11.0	Influenza due to unidentified influenza virus with pneumonia	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations	Diagnosis	ICD-10-CM
J11.2	Influenza due to unidentified influenza virus with gastrointestinal manifestations	Diagnosis	ICD-10-CM
J11.8	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
J11.81	Influenza due to unidentified influenza virus with encephalopathy	Diagnosis	ICD-10-CM
J11.82	Influenza due to unidentified influenza virus with myocarditis	Diagnosis	ICD-10-CM
J11.83	Influenza due to unidentified influenza virus with otitis media	Diagnosis	ICD-10-CM
J11.89	Influenza due to unidentified influenza virus with other manifestations	Diagnosis	ICD-10-CM
86710	Influenza A and B antibody serology (complement fixation)	Procedure	CPT-4
87275	Infectious agent antigen detection by immunofluorescent technique; influenza B virus	Procedure	CPT-4
87276	Infectious agent antigen detection by immunofluorescent technique; influenza A virus	Procedure	CPT-4
87400	Infectious agent antigen detection by immunoassay technique, (eg, enzyme immunoassay [EIA], enzyme-linked immunosorbent assay [ELISA], immunochemiluminometric assay [IMCA]) qualitative or semiquantitative, multiple-step method; Influenza, A or B, each	Procedure	CPT-4
87501	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, includes reverse transcription, when performed, and amplified probe technique, each type or subtype	Procedure	CPT-4
87502	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, first 2 types or sub-types	Procedure	CPT-4
87503	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, each additional influenza virus type or sub-type beyond 2 (List separately in addition to code for primary procedure)	Procedure	CPT-4
87804	Infectious agent antigen detection by immunoassay with direct optical observation; Influenza	Procedure	CPT-4
<b>Influenza Lab</b>			
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A not specified tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
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INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
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INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B not specified tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Home setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Inpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Outpatient setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Unknown setting / Borderline, Positive, Negative, Undetermined results	Lab	Sentinel-Defined
<b>Influenza Lab</b>			
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_A	Influenza Virus A {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_AB	Influenza Virus A + B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B immunofluorescence tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / bronchoalveolar lavage specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B not specified tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined



**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal swab or nose specimen specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_B	Influenza Virus B {enzyme} immunoassay tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified not specified tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / sputum specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / throat swab, oropharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified organism-specific culture tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal swab specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined

**Appendix R. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition, Category II (CPT-2), Current Procedural Terminology, Fourth Edition, Category III (CPT-3), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System (HCPCS), Encounter, Vaccine Administered (CVX), and Lab Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
INF_NS	Influenza Virus Not Specified probe and target amplification tests / nasopharyngeal wash specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / other specimens / Unknown setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Emergency Department setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Home setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Inpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Outpatient setting / Positive results	Lab	Sentinel-Defined
INF_NS	Influenza Virus Not Specified probe and target amplification tests / unknown or missing specimens / Unknown setting / Positive results	Lab	Sentinel-Defined



### Appendix S. Calculation of the Test Statistic for Unconditional Bernoulli Probability

The log likelihood ratio (LLR) based test statistic  $T$  can be calculated as:

Where:  $T$  = unconditional Bernoulli tree-based scan statistic  
 $c_G$  = cases in the treatment group for a given node  $G$   
 $n_G$  = cases in the reference group for a given node  $G$   
 $p$  = probability of being in the treatment group  
*(for 1:1 matched pairs, this is 0.5)*  
 $G$  = node of interest

$$LLR(G) = \ln \left( \frac{\left( \frac{c_G}{c_G + n_G} \right)^{c_G} \left( \frac{n_G}{c_G + n_G} \right)^{n_G}}{(p)^{c_G} (1 - p)^{n_G}} \right) I \left( \frac{c_G}{c_G + n_G} > p \right)$$

$$T = \max_G LLR(G)$$

<sup>1</sup>Expression in blue: This is the maximum likelihood estimation. It takes the form of a Bernoulli probability model. The numerator of the equation is based on the observed data. The denominator of the equation is based on the expectation under the null hypothesis. If the observed data “fit” the pattern of the null hypothesis, then this expression would be 1. The “log” of the function is for mathematical convenience. The  $\ln(1) = 0$ .

<sup>2</sup>Expression in green: This is an indication function. It means that a log-likelihood ratio (LLR) is ONLY recorded if there are more cases in the treatment group (ACEI) than expected. So, a LLR is only calculated among nodes on the tree when the LLR would normally exceed 0 (or the likelihood ratio would exceed 1).

<sup>3</sup>Expression in red: The Log Likelihood Ratio is calculated for every position (node) on the tree including each individual diagnosis code and groupings of codes. For any dataset (i.e., across all nodes of the tree), the test statistic for that dataset is the maximum across all the nodes.

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

This request (cder\_sip\_wp001) executed the Cohort Identification and Descriptive Analysis (CIDA) tool version 12.1.2 with the Propensity Score Analysis and Signal Identification modules. The purpose of this query is to perform signal identification on baloxavir compared to oseltamivir in the Sentinel Distributed Database (SDD). This is a propensity-score matched TreeScan analysis that scans all non-pregnancy related outcomes to determine whether there are imbalances in outcome occurrence between the two groups that rises to the level of statistical significance. The analytic dataset files created will be used as input to the Treescan software (v.2.1).

<b>Query period:</b>	October 24, 2018 (Baloxavir Approval Date) - April 30, 2023
<b>Coverage requirement:</b>	Medical & Drug Coverage
<b>Pre-index enrollment requirement:</b>	400 days
<b>Post-index requirement:</b>	0 days
<b>Post-episode requirement for Type 2 analyses:</b>	0 days
<b>Enrollment gap:</b>	45 days
<b>Age groups:</b>	See cohort design below
<b>Stratifications:</b>	Year-Month, Age group x Year, COVAR90, COVAR81, Censor Time, Tree Analysis, Tree Analysis x COVAR90, Tree Analysis x COVAR81
<b>Censor output categorization:</b>	0-5, 6-10, 11-30, 31-60, 61-84
<b>Restrictions:</b>	M/F Sex
<b>Envelope macro:</b>	Reclassify encounters during inpatient stay as inpatient. Do not reclassify if encounter occurs on day of admission (ADate)
<b>Freeze data:</b>	Matched

**Cohort Identification and Descriptive Analysis**
**Index Event**

<b>Cohort Group</b>	<b>Index Exposure</b>	<b>Age Groups</b>
baloxavir	baloxavir	12-18, 19-44, 45-64, 65+
oseltamivir	oseltamivir	12-18, 19-44, 45-64, 65+
baloxavir_peds	baloxavir	12-18 years
oseltamivir_peds	oseltamivir	12-18 years
baloxavir_adults	baloxavir	19-44, 45-64, 65+
oseltamivir_adults	oseltamivir	19-44, 45-64, 65+
baloxavir_geriatric	baloxavir	65-74, 75-84, 85+
oseltamivir_geriatric	oseltamivir	65-74, 75-84, 85+

**Inclusion/Exclusion Criteria**

<b>Cohort Group</b>	<b>Definition</b>	<b>Type of Criteria</b>
baloxavir	No use of baloxavir or oseltamivir in prior six months	Exclusion
baloxavir	No inpatient encounter on index or 10 days prior	Exclusion
baloxavir	No institutional encounter on index or 400 days prior	Exclusion
baloxavir	No live birth codes from two weeks prior to two weeks post index	Exclusion
baloxavir	No gestational age codes	Exclusion

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

baloxavir	No fertility codes	Exclusion
baloxavir	No prenatal test codes	Exclusion
oseltamivir	No use of baloxavir or oseltamivir in prior six months	Exclusion
oseltamivir	No inpatient encounter on index or 10 days prior	Exclusion
oseltamivir	No institutional encounter on index or 400 days prior	Exclusion
oseltamivir	No live birth codes from two weeks prior to two weeks post index	Exclusion
oseltamivir	No gestational age codes	Exclusion
oseltamivir	No fertility codes	Exclusion
oseltamivir	No prenatal test codes	Exclusion
baloxavir_peds	No use of oseltamivir on index	Exclusion
baloxavir_peds	No inpatient encounter on index or 10 days prior	Exclusion
baloxavir_peds	No institutional encounter on index or 400 days prior	Exclusion
baloxavir_peds	No live birth codes from two weeks prior to two weeks post index	Exclusion
baloxavir_peds	No gestational age codes	Exclusion
baloxavir_peds	No fertility codes	Exclusion
baloxavir_peds	No prenatal test codes	Exclusion
oseltamivir_peds	No use of baloxavir on index	Exclusion
oseltamivir_peds	No inpatient encounter on index or 10 days prior	Exclusion
oseltamivir_peds	No institutional encounter on index or 400 days prior	Exclusion
oseltamivir_peds	No live birth codes from two weeks prior to two weeks post index	Exclusion
oseltamivir_peds	No gestational age codes	Exclusion
oseltamivir_peds	No fertility codes	Exclusion
oseltamivir_peds	No prenatal test codes	Exclusion
baloxavir_adults	No use of baloxavir or oseltamivir in prior six months	Exclusion
baloxavir_adults	No inpatient encounter on index or 10 days prior	Exclusion
baloxavir_adults	No institutional encounter on index or 400 days prior	Exclusion
baloxavir_adults	No live birth codes from two weeks prior to two weeks post index	Exclusion
baloxavir_adults	No gestational age codes	Exclusion
baloxavir_adults	No fertility codes	Exclusion
baloxavir_adults	No prenatal test codes	Exclusion
oseltamivir_adults	No use of baloxavir or oseltamivir in prior six months	Exclusion
oseltamivir_adults	No inpatient encounter on index or 10 days prior	Exclusion
oseltamivir_adults	No institutional encounter on index or 400 days prior	Exclusion
oseltamivir_adults	No live birth codes from two weeks prior to two weeks post index	Exclusion
oseltamivir_adults	No gestational age codes	Exclusion
oseltamivir_adults	No fertility codes	Exclusion
oseltamivir_adults	No prenatal test codes	Exclusion
baloxavir_geriatric	No use of baloxavir or oseltamivir in prior six months	Exclusion
baloxavir_geriatric	No inpatient encounter on index or 10 days prior	Exclusion

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

baloxavir_geriatric	No institutional encounter on index or 400 days prior	Exclusion
baloxavir_geriatric	No live birth codes from two weeks prior to two weeks post index	Exclusion
baloxavir_geriatric	No gestational age codes	Exclusion
baloxavir_geriatric	No fertility codes	Exclusion
baloxavir_geriatric	No prenatal test codes	Exclusion
oseltamivir_geriatric	No use of baloxavir or oseltamivir in prior six months	Exclusion
oseltamivir_geriatric	No inpatient encounter on index or 10 days prior	Exclusion
oseltamivir_geriatric	No institutional encounter on index or 400 days prior	Exclusion
oseltamivir_geriatric	No live birth codes from two weeks prior to two weeks post index	Exclusion
oseltamivir_geriatric	No gestational age codes	Exclusion
oseltamivir_geriatric	No fertility codes	Exclusion
oseltamivir_geriatric	No prenatal test codes	Exclusion

**Follow-Up Time**

Cohort Group	Minimum Index Episode Duration	Max Index Episode Duration
baloxavir	N/A	84
oseltamivir	N/A	84
baloxavir_peds	N/A	84
oseltamivir_peds	N/A	84
baloxavir_adults	N/A	84
oseltamivir_adults	N/A	84
baloxavir_geriatric	N/A	84
oseltamivir_geriatric	N/A	84

**Outcome of Interest**

Cohort Group	Outcome
baloxavir	N/A
oseltamivir	N/A
baloxavir_peds	N/A
oseltamivir_peds	N/A
baloxavir_adults	N/A
oseltamivir_adults	N/A
baloxavir_geriatric	N/A
oseltamivir_geriatric	N/A

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**
**Cohort Identification and Descriptive Analysis**

Index Event			
Cohort Group	Cohort Definition	Stockpiling	Evidence of a Date Only (Y) or Evidence of an Interval (N)?
baloxavir	*First valid exposure episodes during query period;	Default	Yes
oseltamivir	*First valid exposure episodes during query period;	Default	Yes
baloxavir_peds	*First valid exposure episodes during query period;	Default	Yes
oseltamivir_peds	*First valid exposure episodes during query period;	Default	Yes
baloxavir_adults	*First valid exposure episodes during query period;	Default	Yes
oseltamivir_adults	*First valid exposure episodes during query period;	Default	Yes
baloxavir_geriatric	*First valid exposure episodes during query period;	Default	Yes
oseltamivir_geriatric	*First valid exposure episodes during query period;	Default	Yes

**Inclusion/Exclusion Criteria**

Cohort Group	Evaluation Period Start	Evaluation Period End	Evidence of date only (Y) or evidence of an interval (N).
baloxavir	-183	-1	No
baloxavir	-10	0	No
baloxavir	-400	0	No
baloxavir	-14	14	No
baloxavir	-301+(value specified in algorithm)	14	No
baloxavir	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir	-183	-1	No
oseltamivir	-10	0	No
oseltamivir	-400	0	No
oseltamivir	-14	14	No
oseltamivir	-301+(value specified in algorithm)	14	No
oseltamivir	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_peds	0	0	No
baloxavir_peds	-10	0	No

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

baloxavir_peds	-400	0	No
baloxavir_peds	-14	14	No
baloxavir_peds	-301+(value specified in algorithm)	14	No
baloxavir_peds	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_peds	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_peds	0	0	No
oseltamivir_peds	-10	0	No
oseltamivir_peds	-400	0	No
oseltamivir_peds	-14	14	No
oseltamivir_peds	-301+(value specified in algorithm)	14	No
oseltamivir_peds	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_peds	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_adults	-183	-1	No
baloxavir_adults	-10	0	No
baloxavir_adults	-400	0	No
baloxavir_adults	-14	14	No
baloxavir_adults	-301+(value specified in algorithm)	14	No
baloxavir_adults	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_adults	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_adults	-183	-1	No
oseltamivir_adults	-10	0	No
oseltamivir_adults	-400	0	No
oseltamivir_adults	-14	14	No
oseltamivir_adults	-301+(value specified in algorithm)	14	No
oseltamivir_adults	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_adults	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_geriatric	-183	-1	No

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

baloxavir_geriatric	-10	0	No
baloxavir_geriatric	-400	0	No
baloxavir_geriatric	-14	14	No
baloxavir_geriatric	-301+(value specified in algorithm)	14	No
baloxavir_geriatric	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
baloxavir_geriatric	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_geriatric	-183	-1	No
oseltamivir_geriatric	-10	0	No
oseltamivir_geriatric	-400	0	No
oseltamivir_geriatric	-14	14	No
oseltamivir_geriatric	-301+(value specified in algorithm)	14	No
oseltamivir_geriatric	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No
oseltamivir_geriatric	-301+(lower end of Expected Gestational age from Sentinel still-birth Validation)	14	No

Follow-Up Time			
Cohort Group	Risk Window start	Blackout Period	Censor Treatment Episode at Evidence of:
baloxavir	1	N/A	*Death;*DP end date;*Query end date;Occurrence of oseltamivir
oseltamivir	1	N/A	*Death;*DP end date;*Query end date;Occurrence of baloxavir
baloxavir_peds	1	N/A	*Death;*DP end date;*Query end date;Occurrence of oseltamivir
oseltamivir_peds	1	N/A	*Death; *DP end date; *Query end date; Occurrence of baloxavir
baloxavir_adults	1	N/A	*Death;*DP end date;*Query end date;Occurrence of oseltamivir
oseltamivir_adults	1	N/A	*Death;*DP end date;*Query end date;Occurrence of baloxavir
baloxavir_geriatric	1	N/A	*Death;*DP end date;*Query end date;Occurrence of oseltamivir
oseltamivir_geriatric	1	N/A	*Death;*DP end date;*Query end date;Occurrence of baloxavir

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**
**Cohort Identification and Descriptive Analysis**
**Index Event**

Cohort Group	Principal Diagnosis Position	Point Exposure?	Forced Supply to Attach to Dispensings	Min Days Supplied
baloxavir	N/A	Yes	N/A	N/A
oseltamivir	N/A	Yes	N/A	N/A
baloxavir_peds	N/A	Yes	N/A	N/A
oseltamivir_peds	N/A	Yes	N/A	N/A
baloxavir_adults	N/A	Yes	N/A	N/A
oseltamivir_adults	N/A	Yes	N/A	N/A
baloxavir_geriatric	N/A	Yes	N/A	N/A
oseltamivir_geriatric	N/A	Yes	N/A	N/A

**Inclusion/Exclusion Criteria**

Cohort Group	Principal Diagnosis Position	Number of Instances the Criteria Should be Found in the Evaluation Period	Forced Supply to Attach to Dispensings	Min Days Supplied
baloxavir	N/A	1	N/A	N/A
baloxavir	Any	1	N/A	N/A
baloxavir	Any	1	N/A	N/A
baloxavir	N/A	1	N/A	N/A
baloxavir	N/A	1	N/A	N/A
baloxavir	N/A	1	N/A	N/A
baloxavir	N/A	1	N/A	N/A
oseltamivir	N/A	1	N/A	N/A
oseltamivir	Any	1	N/A	N/A
oseltamivir	Any	1	N/A	N/A
oseltamivir	N/A	1	N/A	N/A
oseltamivir	N/A	1	N/A	N/A
oseltamivir	N/A	1	N/A	N/A
oseltamivir	N/A	1	N/A	N/A
baloxavir_peds	N/A	1	N/A	N/A
baloxavir_peds	Any	1	N/A	N/A
baloxavir_peds	Any	1	N/A	N/A
baloxavir_peds	N/A	1	N/A	N/A
baloxavir_peds	N/A	1	N/A	N/A
baloxavir_peds	N/A	1	N/A	N/A
baloxavir_peds	N/A	1	N/A	N/A
oseltamivir_peds	N/A	1	N/A	N/A



**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

oseltamivir_peds	Any	1	N/A	N/A
oseltamivir_peds	Any	1	N/A	N/A
oseltamivir_peds	N/A	1	N/A	N/A
oseltamivir_peds	N/A	1	N/A	N/A
oseltamivir_peds	N/A	1	N/A	N/A
oseltamivir_peds	N/A	1	N/A	N/A
baloxavir_adults	N/A	1	N/A	N/A
baloxavir_adults	Any	1	N/A	N/A
baloxavir_adults	Any	1	N/A	N/A
baloxavir_adults	N/A	1	N/A	N/A
baloxavir_adults	N/A	1	N/A	N/A
baloxavir_adults	N/A	1	N/A	N/A
baloxavir_adults	N/A	1	N/A	N/A
oseltamivir_adults	N/A	1	N/A	N/A
oseltamivir_adults	Any	1	N/A	N/A
oseltamivir_adults	Any	1	N/A	N/A
oseltamivir_adults	N/A	1	N/A	N/A
oseltamivir_adults	N/A	1	N/A	N/A
oseltamivir_adults	N/A	1	N/A	N/A
oseltamivir_adults	N/A	1	N/A	N/A
baloxavir_geriatric	N/A	1	N/A	N/A
baloxavir_geriatric	Any	1	N/A	N/A
baloxavir_geriatric	Any	1	N/A	N/A
baloxavir_geriatric	N/A	1	N/A	N/A
baloxavir_geriatric	N/A	1	N/A	N/A
baloxavir_geriatric	N/A	1	N/A	N/A
baloxavir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	Any	1	N/A	N/A
oseltamivir_geriatric	Any	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A
oseltamivir_geriatric	N/A	1	N/A	N/A

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

**Cohort Identification and Descriptive Analysis**

**Index Event**

Cohort Group	Min Cumulative Dose	Min Current Filled Daily Dose	Max Cumulative Dose	Max Current Filled Daily Dose	Allowable Gap	Extension
baloxavir	N/A	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A	N/A

**Inclusion/Exclusion Criteria**

Cohort Group	Min Cumulative Dose	Min Average Filled Daily Dose	Min Current Filled Daily Dose	Max Average Filled Daily Dose	Max Current Filled Daily Dose
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
baloxavir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
oseltamivir	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
oseltamivir_peds	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
oseltamivir_adults	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
baloxavir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A
oseltamivir_geriatric	N/A	N/A	N/A	N/A	N/A

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Propensity Score Analysis		
Propensity Score Estimation		
Propensity Score Model Group	Exposure of Interest (EOI)	Referent
balo_osel_12_65	baloxavir	oseltamivir
balo_osel_12_18	baloxavir_peds	oseltamivir_peds
balo_osel_19_65	baloxavir_adults	oseltamivir_adults
balo_osel_12_65_hdps	baloxavir	oseltamivir
balo_osel_12_18_hdps	baloxavir_peds	oseltamivir_peds
balo_osel_19_65_hdps	baloxavir_adults	oseltamivir_adults
balo_osel_65_85_hdps	baloxavir_geriatric	oseltamivir_geriatric

Propensity Score Matching		
Analysis Group	Propensity Score Model Label	Matching Algorithm Type
balo_osel_12_65_1to1	balo_osel_12_65	Fixed
balo_osel_12_18_1to1	balo_osel_12_18	Fixed
balo_osel_19_65_1to1	balo_osel_19_65	Fixed
balo_osel_12_65_hdps_1to1	balo_osel_12_65_hdps	Fixed
balo_osel_12_18_hdps_1to1	balo_osel_12_18_hdps	Fixed
balo_osel_19_65_hdps_1to1	balo_osel_19_65_hdps	Fixed
balo_osel_12_65_1to2	balo_osel_12_65	Fixed
balo_osel_12_65_hdps_1to2	balo_osel_12_65_hdps	Fixed
balo_osel_19_65_1to2	balo_osel_19_65	Fixed
balo_osel_19_65_hdps_1to2	balo_osel_19_65_hdps	Fixed
balo_osel_65_85_hdps_1to2	balo_osel_65_85_hdps	Fixed

Propensity Score Subgroups		
Analysis Group	Covariates Used for Subgroup Analyses <sup>2</sup>	Subgroup Category
balo_osel_12_65_1to1	Medically-Attended Acute Respiratory Illness	1
balo_osel_12_65_hdps_1to1	Medically-Attended Acute Respiratory Illness	1
balo_osel_19_65_1to1	Medically-Attended Acute Respiratory Illness	1
balo_osel_19_65_hdps_1to1	Medically-Attended Acute Respiratory Illness	1
balo_osel_12_65_1to1	Oseltamivir Days Supply >/=7	0
balo_osel_12_65_hdps_1to1	Oseltamivir Days Supply >/=7	0
balo_osel_19_65_1to1	Oseltamivir Days Supply >/=7	0
balo_osel_19_65_hdps_1to1	Oseltamivir Days Supply >/=7	0

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Propensity Score Analysis			
Propensity Score Estimation			
Propensity Score Model Group	Continuous Covariates	Categorical Covariates	Firth Logistic Intercept Correct (FLIC) Method
balo_osel_12_65	See covariates tab	See covariates tab	No
balo_osel_12_18	See covariates tab	See covariates tab	No
balo_osel_19_65	See covariates tab	See covariates tab	No
balo_osel_12_65_hdps	age	sex, race, SDI category, flu season of index	No
balo_osel_12_18_hdps	age	sex, race, SDI category, flu season of index	No
balo_osel_19_65_hdps	age	sex, race, SDI category, flu season of index	No
balo_osel_65_85_hdps	age	sex, race, SDI category, flu season of index	No
Propensity Score Matching			
Analysis Group	Max Number of Matches	Matching Caliper	Conditional and/or Unconditional Analysis
balo_osel_12_65_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_12_18_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_19_65_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_12_65_hdps_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_12_18_hdps_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_19_65_hdps_1to1	1	0.025	Conditional Only (No Unconditional)
balo_osel_12_65_1to2	2	0.05	Conditional Only (No Unconditional)
balo_osel_12_65_hdps_1to2	2	0.05	Conditional Only (No Unconditional)
balo_osel_19_65_1to2	2	0.05	Conditional Only (No Unconditional)
balo_osel_19_65_hdps_1to2	2	0.05	Conditional Only (No Unconditional)
balo_osel_65_85_hdps_1to2	2	0.05	Conditional Only (No Unconditional)
Propensity Score Subgroups			
Analysis Group	Max Number of Matches	Firth Logistic Intercept Corrected Method	Re-Estimate Original Propensity Score?
balo_osel_12_65_1to1	Evidence of covariate (1)	No	Yes
balo_osel_12_65_hdps_1to1	Evidence of covariate (1)	No	Yes

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

balo_osel_19_65_1to1	Evidence of covariate (1)	No	Yes
balo_osel_19_65_hdps_1to1	Evidence of covariate (1)	No	Yes
balo_osel_12_65_1to1	Absence of covariate (0)	No	Yes
balo_osel_12_65_hdps_1to1	Absence of covariate (0)	No	Yes
balo_osel_19_65_1to1	Absence of covariate (0)	No	Yes
balo_osel_19_65_hdps_1to1	Absence of covariate (0)	No	Yes

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Propensity Score Analysis				
Propensity Score Estimation				
PS Model Group	Build High-Dimensional Propensity Score (hdPS) Model?	Evaluation Period Start for hdPS Covariates	Evaluation Period End for hdPS Covariates	Number of Covariates to Consider for hdPS
balo_osel_12_65	No	N/A	N/A	N/A
balo_osel_12_18	No	N/A	N/A	N/A
balo_osel_19_65	No	N/A	N/A	N/A
balo_osel_12_65_hdps	Yes	-183	-1	100
balo_osel_12_18_hdps	Yes	-183	-1	100
balo_osel_19_65_hdps	Yes	-183	-1	100
balo_osel_65_85_hdps	Yes	-183	-1	100

Propensity Score Subgroups	
Analysis Group	Re-Match Within Matched Population?
balo_osel_12_65_1to1	Yes
balo_osel_12_65_hdps_1to1	Yes
balo_osel_19_65_1to1	Yes
balo_osel_19_65_hdps_1to1	Yes
balo_osel_12_65_1to1	Yes
balo_osel_12_65_hdps_1to1	Yes
balo_osel_19_65_1to1	Yes
balo_osel_19_65_hdps_1to1	Yes

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Propensity Score Analysis						
Propensity Score Estimation						
PS Model Group	Number of covariates selected for hdPS	Method for selecting hdPS covariates	Zero Cell Correction for Association with Exposure	ICD-9 diagnosis code digits to consider for hdPS	ICD-10 diagnosis code digits to consider for hdPS	
balo_osel_12_65	N/A	N/A	N/A	N/A	N/A	
balo_osel_12_18	N/A	N/A	N/A	N/A	N/A	
balo_osel_19_65	N/A	N/A	N/A	N/A	N/A	
balo_osel_12_65_hdps	300	Top k variables are selected as ranked by the exposure association (here k is the number of covariates selected)	Yes	N/A	3	
balo_osel_12_18_hdps	300	Top k variables are selected as ranked by the exposure association (here k is the number of covariates selected)	Yes	N/A	3	
balo_osel_19_65_hdps	300	Top k variables are selected as ranked by the exposure association (here k is the number of covariates selected)	Yes	N/A	3	
balo_osel_65_85_hdps	300	Top k variables are selected as ranked by the exposure association (here k is the number of covariates selected)	Yes	N/A	3	
Propensity Score Matching						



**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Signal Identification		
Treescan		
Treescan Group	Analysis Group	Tree Level Defining Incident Health Outcome of Interest (HOI)
balox_iped	balo_osel_12_65_1to1	3
balox_hdps_iped	balo_osel_12_65_hdps_1to1	3
balox_1to2_iped	balo_osel_12_65_1to2	3
balox_hdps_1to2_iped	balo_osel_12_65_hdps_1to2	3
balox_peds_iped	balo_osel_12_18_1to1	3
balox_adults_iped	balo_osel_19_65_1to1	3
balox_adults_hdps_iped	balo_osel_19_65_hdps_1to1	3
balox_adults_1to2_iped	balo_osel_19_65_1to2	3
balox_adults_hdps_1to2_iped	balo_osel_19_65_hdps_1to2	3
balox_geriatric_hdps_1to2_iped	balo_osel_65_85_hdps_1to2	3
balox_ipedav	balo_osel_12_65_1to1	3
balox_peds_ipedav	balo_osel_12_18_1to1	3
balox_adults_ipedav	balo_osel_19_65_1to1	3

**Appendix T. Specifications of Parameters Used to Define Propensity Score Analysis and Signal Identification Outcome Assessment in this Request**

Signal Identification					
TreeScan					
Treescan Group	HOI Washout Period	Care Setting/Principal Diagnosis Position Requirements	Care Setting/Principal Diagnosis Position Requirements for Washout		
balox_iped	400	IP*, ED*	IP*, ED*		
balox_hdps_iped	400	IP*, ED*	IP*, ED*		
balox_1to2_iped	400	IP*, ED*	IP*, ED*		
balox_hdps_1to2_iped	400	IP*, ED*	IP*, ED*		
balox_peds_iped	400	IP*, ED*	IP*, ED*		
balox_adults_iped	400	IP*, ED*	IP*, ED*		
balox_adults_hdps_iped	400	IP*, ED*	IP*, ED*		
balox_adults_1to2_iped	400	IP*, ED*	IP*, ED*		
balox_adults_hdps_1to2_iped	400	IP*, ED*	IP*, ED*		
balox_geriatric_hdps_iped	400	IP*, ED*	IP*, ED*		
balox_ipedav	400	IP*, ED*, AV*	IP*, ED*, AV*		
balox_peds_ipedav	400	IP*, ED*, AV*	IP*, ED*, AV*		
balox_adults_ipedav	400	IP*, ED*, AV*	IP*, ED*, AV*		

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Covariate	Include in			Care Setting	Principal Diagnosis Position
		Baseline Table?	Include in Propensity Score?	Create Subgroup?		
<i>Demographics and Index-Defining</i>						
N/A	Social Deprivation Quartile	Yes	Yes	No	N/A	N/A
N/A	Index Year	Yes	No	No	N/A	
N/A	Index Flu Season	Yes	Yes	No	N/A	N/A
N/A	Age	Yes	Yes (as continuous)	No	Any care setting	N/A
N/A	Sex	Yes	Yes	No	Any care setting	N/A
N/A	Race	Yes	Yes	No	Any care setting	N/A
N/A	Ethnicity	Yes	No	No	Any care setting	N/A
<i>Chronic Conditions Assessed Days [-400, -1]</i>						
N/A	Combined Comorbidity Score	Yes	Yes (as continuous)	No	N/A	N/A
1	Acute Myocardial Infarction	Yes	Yes	No	Any care setting	N/A
2	Alzheimer's Disease	Yes	Yes	No	Any care setting	N/A
3	Anemia	Yes	Yes	No	Any care setting	N/A
4	Asthma	Yes	Yes	No	Any care setting	N/A
5	Atrial Fibrillation or Flutter	Yes	Yes	No	Any care setting	N/A
6	Benign Prostatic Hyperplasia	Yes	Yes	No	Any care setting	N/A
7	Breast Cancer	Yes	Yes	No	Any care setting	N/A
8	Colorectal Cancer	Yes	Yes	No	Any care setting	N/A
9	Endometrial Cancer	Yes	Yes	No	Any care setting	N/A
10	Lung Cancer	Yes	Yes	No	Any care setting	N/A
11	Prostate Cancer	Yes	Yes	No	Any care setting	N/A
12	Urologic Cancer	Yes	Yes	No	Any care setting	N/A
13	Cataract	Yes	Yes	No	Any care setting	N/A
14	Chronic Kidney Disease	Yes	Yes	No	Any care setting	N/A
15	Chronic Obstructive Pulmonary Disorder	Yes	Yes	No	Any care setting	N/A
16	Depression, Bipolar, or Other Mood Disorders	Yes	Yes	No	Any care setting	N/A
17	Diabetes	Yes	Yes	No	Any care setting	N/A
18	Glaucoma	Yes	Yes	No	Any care setting	N/A
19	Heart Failure and Non-Ischemic Heart Disease	Yes	Yes	No	Any care setting	N/A
20	Hip/Pelvic Fracture	Yes	Yes	No	Any care setting	N/A
21	Hyperlipidemia	Yes	Yes	No	Any care setting	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Covariate	Include in			Create Subgroup?	Care Setting	Principal Diagnosis Position
		Baseline Table?	Include in Propensity Score?				
22	Hypertension	Yes	Yes	No	Any care setting	N/A	
23	Hypothyroidism	Yes	Yes	No	Any care setting	N/A	
24	Ischemic Heart Disease	Yes	Yes	No	Any care setting	N/A	
25	Non-Alzheimer's Dementia	Yes	Yes	No	Any care setting	N/A	
26	Osteoporosis	Yes	Yes	No	Any care setting	N/A	
27	Parkinson's Disease and Secondary Parkinsonism	Yes	Yes	No	Any care setting	N/A	
28	Rheumatoid Arthritis/Osteoarthritis	Yes	Yes	No	Any care setting	N/A	
29	Stroke/Transient Ischemic Attack	Yes	Yes	No	Any care setting	N/A	
77	Hepatic Disorders	Yes	Yes	No	Any care setting	N/A	
<i>Risk Factors for Poor Influenza Outcomes Assessed Days [-400, -1]</i>							
85	Evidence of Any High Risk Marker	Yes	No	No	Any care setting	N/A	
30	Acute Respiratory-Related Hospitalization	Yes	Yes	No	IP*/ IS*	N/A	
31	Blood Disorder	Yes	Yes	No	Any care setting	N/A	
32	Chronic Lung Disease	Yes	Yes	No	Any care setting	N/A	
86	Immunocompromise	Yes	Yes	No	Any care setting	N/A	
33	Immunocompromising Condition	No	No	No	Any care setting	N/A	
34	Immunosuppressive Medication w/out Corticosteroids	No	No	No	Any care setting	N/A	
95	Immunosuppressive Medication	No	No	No	Any care setting	N/A	
80	Corticosteroids	No	No	No	Any care setting	N/A	
35	Neurologic and Neurodevelopmental Condition	Yes	Yes	No	Any care setting	N/A	
36	Spine Injury	No	No	No	Any care setting	N/A	
37	Cerebral Palsy	No	No	No	Any care setting	N/A	
38	Seizure Disorders	No	No	No	Any care setting	N/A	
39	Intellectual Disabilities	No	No	No	Any care setting	N/A	
40	Congenital Disorders	No	No	No	Any care setting	N/A	

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Covariate	Include in			Create Subgroup?	Care Setting	Principal Diagnosis Position
		Baseline Table?	Include in Propensity Score?				
41	Other Developmental Disorders	No	No	No	Any care setting	N/A	
42	Brain Injuries	No	No	No	Any care setting	N/A	
78	Muscular Dystrophy	No	No	No	Any care setting	N/A	
43	Obesity	Yes	Yes	No	Any care setting	N/A	
44	Tobacco or Nicotine Use	Yes	Yes	No	Any care setting	N/A	
<i>Medical Product Use</i>							
45	Any Antiviral Neuraminidase Inhibitor Days [Ever, -184]	Yes	Yes	No	Any care setting	N/A	
46	Baloxavir Days [Ever, -184]	Yes	No	No	N/A	N/A	
47	Oseltamivir Days [Ever, -184]	Yes	No	No	Any care setting	N/A	
48	Any Antiviral Neuraminidase Inhibitor Days [-400, -1]	Yes	No	No	N/A	N/A	
49	Baloxavir Days [-400, -1]	Yes	No	No	N/A	N/A	
50	Oseltamivir Days [-400, -1]	Yes	No	No	N/A	N/A	
81	Oseltamivir Days Supply >=7	Yes	No	No	N/A	N/A	
82	Oseltamivir Minimum Average Filled Dose 150mg Day 0	Yes	No	No	N/A	N/A	
83	Hospitalization Days [-400 to -11]	Yes	No	No	IP*	Any	
84	Oseltamivir Minimum Average Filled Dose 150mg Days -30 to 30	Yes	No	No	N/A	N/A	
79	Long-term aspirin- or salicylate-containing medications	Yes	Yes (Only for Peds)	No	N/A	N/A	
<i>Other Characteristics</i>							
51	Pneumococcal Vaccination Days [-400, -1]	Yes	Yes	No	Any care setting	N/A	
52	Influenza Vaccination Days [-400, -1]	Yes	Yes	No	Any care setting	N/A	
53	SARS-CoV-2 Vaccination Days [-400, -1]	Yes	Yes	No	Any care setting	N/A	
87	Evidence of COVID-19 Days [-90, -61]	Yes	Yes	No	N/A	N/A	
88	Evidence of COVID-19 Days [-60, -31]	Yes	Yes	No	N/A	N/A	
89	Evidence of COVID-19 Days [-30, -1]	Yes	Yes	No	N/A	N/A	
54	COVID-19 Diagnosis -3M	No	No	No	Any care setting	N/A	
55	COVID-19 Legacy Diagnosis -3M	No	No	No	IP*/IS*	N/A	
56	Positive SARS-CoV-2 Laboratory Result -3M	No	No	No	N/A	N/A	
57	COVID-19 Diagnosis -2M	No	No	No	Any care setting	N/A	
58	COVID-19 Legacy Diagnosis -2M	No	No	No	IP*/IS*	N/A	

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Covariate	Include in Baseline Table?	Include in Propensity Score?	Create Subgroup?	Care Setting	Principal Diagnosis Position
59	Positive SARS-CoV-2 Laboratory Result -2M	No	No	No	N/A	N/A
60	COVID-19 Diagnosis -1M	No	No	No	Any care setting	N/A
61	COVID-19 Legacy Diagnosis -1M	No	No	No	IP*/IS*	N/A
62	Positive SARS-CoV-2 Laboratory Result -1M	No	No	No	N/A	N/A
Respiratory Infection Markers Assessed Days {-3, 0}						
90	Medically-Attended Acute Respiratory Illness (MAARI)	Yes	Yes	Yes	N/A	N/A
91	Severe COVID-Like Illness	Yes	Yes	No	N/A	N/A
63	Acute Respiratory Distress Syndrome	No	No	No	Any care setting	N/A
64	Bronchitis	No	No	No	Any care setting	N/A
65	Chest X-Ray/CT Scan	No	No	No	Any care setting	N/A
66	Pneumonia	No	No	No	Any care setting	N/A
67	Lower Respiratory Tract Infection	No	No	No	Any care setting	N/A
68	Upper Respiratory Tract Infection	No	No	No	Any care setting	N/A
69	Other Viral Infection	No	No	No	Any care setting	N/A
92	Evidence of Influenza	Yes	No	No	N/A	N/A
70	Influenza Diagnosis	Yes	No	No	Any care setting	N/A
71	Positive Influenza Laboratory Result	Yes	No	No	Any care setting	N/A
72	Any Influenza Laboratory Result Record	No	No	No	Any care setting	N/A
73	Any Influenza Testing Procedure Record	No	No	No	Any care setting	N/A
93	Any Influenza Test Procedure or Laboratory Result	Yes	No	No	N/A	N/A
94	Evidence of COVID-19	Yes	No	No	N/A	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Covariate	Include in			Create Subgroup?	Care Setting	Principal Diagnosis Position
		Baseline Table?	Include in Propensity Score?				
74	COVID-19 Diagnosis	Yes	No		No	Any care setting	N/A
75	COVID-19 Legacy Diagnosis	Yes	No		No	IP*/IS*	N/A
76	Positive SARS-CoV-2 Laboratory Result	Yes	No		No	Any care setting	N/A
<i>Health Service Utilization Intensity Metrics in Prior Six Months</i>							
N/A	Mean Number Of Filled Prescriptions	Yes	Yes		No	Any care setting	N/A
N/A	Mean Number Of Ambulatory Encounters	Yes	Yes		No	Any care setting	N/A
N/A	Mean Number Of Generics Dispensed	Yes	No		No	Any care setting	N/A
N/A	Mean Number Of Other Ambulatory Encounters	Yes	Yes		No	Any care setting	N/A
N/A	Mean Number Of Emergency Room Encounters	Yes	Yes		No	Any care setting	N/A
N/A	Mean Number Of Inpatient Hospital Encounters	Yes	Yes		No	Any care setting	N/A
N/A	Mean Number Of Non-Acute Institutional Encounters	Yes	No		No	Any care setting	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

<b>Covariate Number</b>	<b>Code Definition</b>	<b>Code Category</b>	<b>Evaluation Period Start</b>	<b>Evaluation Period End</b>
<i>Demographics and Index-Defining</i>				
N/A	See associated documentation	N/A	0	0
N/A	Year of index	N/A	0	0
N/A	365-day periods starting October 1 through September 30	N/A	0	0
N/A	Age at index	N/A	0	0
N/A	Sex	N/A	0	0
N/A	Race	N/A	0	0
N/A	Hispanic origin	N/A	0	0
<i>Chronic Conditions Assessed Days [-400, -1]</i>				
N/A	As per Sentinel standard	N/A	-400	-1
1	As per CCW*	Diagnosis	-400	-1
2	As per CCW*	Diagnosis	-400	-1
3	As per CCW*	Diagnosis	-400	-1
4	As per CCW*	Diagnosis	-400	-1
5	As per CCW*	Diagnosis	-400	-1
6	As per CCW*	Diagnosis	-400	-1
7	As per CCW*	Diagnosis	-400	-1
8	As per CCW*	Diagnosis	-400	-1
9	As per CCW*	Diagnosis	-400	-1
10	As per CCW*	Diagnosis	-400	-1
11	As per CCW*	Diagnosis	-400	-1
12	As per CCW*	Diagnosis	-400	-1
13	As per CCW*	Diagnosis	-400	-1
14	As per CCW*	Diagnosis	-400	-1
15	As per CCW*	Diagnosis	-400	-1
16	As per CCW*	Diagnosis	-400	-1
17	As per CCW*	Diagnosis	-400	-1
18	As per CCW*	Diagnosis	-400	-1
19	As per CCW*	Diagnosis	-400	-1
20	As per CCW*	Diagnosis	-400	-1
21	As per CCW*	Diagnosis	-400	-1



**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Code Definition	Code Category	Evaluation Period Start	Evaluation Period End
22	As per CCW*	Diagnosis	-400	-1
23	As per CCW*	Diagnosis	-400	-1
24	As per CCW*	Diagnosis	-400	-1
25	As per CCW*	Diagnosis	-400	-1
26	As per CCW*	Diagnosis	-400	-1
27	As per CCW*	Diagnosis	-400	-1
28	As per CCW*	Diagnosis	-400	-1
29	As per CCW*	Diagnosis	-400	-1
77	As per CCW*	Diagnosis	-400	-1
<i>Risk Factors for Poor Influenza Outcomes Assessed Days [-400, -1]</i>				
85	[Neurologic and Neurodevelopmental Condition] or [Blood Disorder] or [Chronic Lung Disease] or [Obesity] or [Acute Respiratory-Related Hospitalization] or [Immunocompromise] or [Tobacco/Nicotine Use]	Combination Covariate (CC)	N/A	N/A
30	Evidence of inpatient or institutional encounter with "J00-J22" diagnosis (Tab = "AR_Related_Hosp_DX")	Diagnosis	-400	-1
31	As per CCW: Sickle Cell Disease	Diagnosis	-400	-1
32	As per CCW: Cystic Fibrosis and Other Metabolic Developmental Disorders	Diagnosis	-400	-1
86	[Immunosuppressive Medication] or [Immunocompromising Condition] or [Corticosteroids]	Combination Covariate (CC)	N/A	N/A
33	Conditions indicating immunosuppression	Diagnosis	-400	-1
34	Medications affecting the immune system and Corticosteroids	Procedure/Drug	-400	-1
95	Medications affecting the immune system and Corticosteroids	Combination Covariate (CC)	-400	-1
80	Medications classification corticosteroids, no ophthalmic, otic, topical, or otherwise non-systemic formulations	Drug	-400	-1
35	As per CCW: Spinal cord injury, Cerebral palsy, Epilepsy, Intellectual Disabilities and Related Conditions, Other Developmental Delays, Spina Bifida and Other Congenital Anomalies of the Nervous System, and Traumatic Brain Injury and Nonpsychotic Mental Disorders due to Brain Damage, Muscular Dystrophy	Diagnosis	-400	-1
36	As per CCW*	Diagnosis	-400	-1
37	As per CCW*	Diagnosis	-400	-1
38	As per CCW*	Diagnosis	-400	-1
39	As per CCW*	Diagnosis	-400	-1
40	As per CCW*	Diagnosis	-400	-1

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Code Definition	Code Category	Evaluation Period Start	Evaluation Period End
41	As per CCW*	Diagnosis	-400	-1
42	As per CCW*	Diagnosis	-400	-1
78	As per CCW*	Diagnosis	-400	-1
43	As per CCW*: Obesity	Diagnosis	-400	-1
44	As per CCW*: Tobacco Use	Diagnosis, Procedure	-400	-1
<i>Medical Product Use</i>				
45	Zanamivir, peramivir, oseltamivir, or baloxavir (Tab = Neuraminidase_NDC, Neuraminidase_PX; Source of truth = This document)	Prescription, Procedure	Ever	-184
46	Baloxavir (Tab = Baloxavir_NDC; Source of truth: this document)	Prescription	Ever	-184
47	Oseltamivir (Tab = Oseltamivir_NDC, Oseltamivir_PX; Source of truth: this document)	Prescription, Procedure	Ever	-184
48	Zanamivir, peramivir, oseltamivir, or baloxavir (Tab = Neuraminidase_NDC, Neuraminidase_PX; Source of truth = This document)	Prescription, Procedure	-400	-1
49	Baloxavir (Tab = Baloxavir_NDC; Source of truth: this document)	Prescription	-183	-1
50	Oseltamivir (Tab = Oseltamivir_NDC, Oseltamivir_PX; Source of truth: this document)	Prescription, Procedure	-183	-1
81	Oseltamivir (Tab = Oseltamivir_NDC; Source of truth: this document)	Drug	0	7
82	Oseltamivir (Tab = Oseltamivir_NDC; Source of truth: this document)	Drug	0	0
83	IP Encounter	Encounter	-400	-11
84	Oseltamivir (Tab = Oseltamivir_NDC; Source of truth: this document)	Drug	-30	30
79	aspirin, "bismuth subsalicylate," and "salicylic acid" restrict to systemic formulations	Drug	-400	-1
<i>Other Characteristics</i>				
51	(Tab = Pneumococcal_vacc_PX, Pneumococcal_vaccine_NDC; Source of truth: This document)	Prescription, Procedure	-400	-1
52	(Tab = Influenza_vaccine_DX_PX, Influenza_vaccine_NDC; Source of truth: This document)	Prescription, Procedure,	-400	-1
53	(Tab = SARS-CoV-2_vacc_PX, SARS-CoV-2_vaccine_NDC; Source of truth: This document)	Prescription, Procedure	-400	-1
87	[COVID-19 Diagnosis -3M] OR [Positive SARS-CoV-2 Laboratory Result -3M]	Combination Covariate (CC)	N/A	N/A
88	[COVID-19 Diagnosis -2M] OR [Positive SARS-CoV-2 Laboratory Result -2M]	Combination Covariate (CC)	N/A	N/A
89	[COVID-19 Diagnosis -1M] OR [Positive SARS-CoV-2 Laboratory Result -1M]	Combination Covariate (CC)	N/A	N/A
54	COVID Non-Legacy Codes	Diagnosis	-90	-61
55	COVID Legacy Codes	Diagnosis	-90	-61
56	SOC-defined SARS-CoV-2 lab codes (Tab = COVID_LB; Source of truth: This document)	Laboratory	-90	-61
57	COVID Non-Legacy Codes	Diagnosis	-60	-31
58	COVID Legacy Codes	Diagnosis	-60	-31

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Code Definition	Code Category	Evaluation Period Start	Evaluation Period End
59	SOC-defined SARS-CoV-2 lab codes (Tab = COVID_LB; Source of truth: This document)	Laboratory	-60	-31
60	COVID Non-Legacy Codes	Diagnosis	-30	0
61	COVID Legacy Codes	Diagnosis	-30	0
62	SOC-defined SARS-CoV-2 lab codes (Tab = COVID_LB; Source of truth: This document)	Laboratory	-30	0
<b>Respiratory Infection Markers Assessed Days {-3, 0}</b>				
90	[Bronchitis] OR [Pneumonia] OR [Upper Respiratory Tract Infection] OR [Other Viral Infection] OR [Influenza Diagnosis] OR [Positive Influenza Laboratory Result] OR [COVID-19 Diagnosis] OR [Positive SARS-CoV-2 Laboratory Result]	Combination Covariate (CC)	N/A	N/A
91	([COVID-19 Diagnosis] OR [Positive SARS-CoV-2 Laboratory Result]) AND ([Lower Respiratory Tract Infection] OR [Bronchitis] OR [Acute Respiratory Distress Syndrome] OR [Pneumonia] OR [Chest X-Ray/CT Scan])	Combination Covariate (CC)	N/A	N/A
63	All ARDS codes in COVID-like illness algorithm (Tab = ARDS_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
64	All bronchitis codes in COVID-like illness algorithm and MAARI list (Tab = Bronchitis_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
65	All Chest x-ray/CT scan codes in COVID-like illness algorithm (Tab = Chest_xray_PX; Source of truth: MAARI_Codes_aim)	Procedure	3	0
66	All pneumonia codes in COVID-like illness algorithm and OCET list (Tab = Pneumonia_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
67	All LRTI codes in COVID-like illness algorithm (Tab = LRTI_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
68	All URTI codes in COVID-like illness algorithm and MAARI list (Tab = URTI_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
69	All "other viral" codes in COVID-like illness algorithm and MAARI list (Tab = Viral_DX; Source of truth: MAARI_Codes_aim)	Diagnosis	-3	0
92	[Influenza Diagnosis] OR [Positive Influenza Laboratory Result]	Combination Covariate (CC)	N/A	N/A
70	All influenza codes in MAARI and OCET lists (Tab = Influenza_DX; Source of truth:	Diagnosis	-3	0
71	SOC-defined Influenza lab codes (Tab = Influenza_LB; Source of truth: This document)	Laboratory	-3	0
72	SOC-defined Influenza lab codes (no result filter), LOINC influenza codes (no result filter) (Tab = Influenza_LB, Influenza_LOINC; Source of truth: This document)	Laboratory	-3	0
73	Influenza test procedure codes (Tab = Influenza_PX; Source of truth: This document)	Procedure	-3	0
93	[Any Influenza Testing Procedure Record] OR [Any Influenza Laboratory Result Record]	Combination Covariate (CC)	N/A	N/A
94	[COVID-19 Diagnosis] OR [Positive SARS-CoV-2 Laboratory Result]	Combination Covariate (CC)	N/A	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

<b>Covariate Number</b>	<b>Code Definition</b>	<b>Code Category</b>	<b>Evaluation Period Start</b>	<b>Evaluation Period End</b>
74	COVID Non-Legacy Codes	Diagnosis	-3	0
75	COVID Legacy Codes	Diagnosis	-3	0
76	SOC-defined SARS-CoV-2 lab codes (Tab = COVID_LB; Source of truth: This document)	Laboratory	-3	0
<i>Health Service Utilization Intensity Metrics in Prior Six Months</i>				
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1
N/A	As per Sentinel standard	N/A	-400	-1

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum average daily dose	Maximum average daily dose	Forced supply to attach to dispensings	Lab date selection algorithm	Lab Result Values
<i>Demographics and Index-Defining</i>								
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Chronic Conditions Assessed Days [-400, -1]</i>								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
2	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
3	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
4	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
5	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
6	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
7	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
8	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
9	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
10	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
13	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
21	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum average daily dose	Maximum average daily dose	Forced supply to attach to dispensings	Lab date selection algorithm	Lab Result Values
22	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
23	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
24	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
25	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
26	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
27	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
28	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
29	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
77	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
<i>Risk Factors for Poor Influenza Outcomes Assessed Days [-400, -1]</i>								
85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
31	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
32	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
34	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
95	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
80	N/A	1	14	N/A	N/A	N/A	N/A	N/A
35	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
36	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
37	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
38	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
39	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
40	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum average daily dose	Maximum average daily dose	Forced supply to attach to dispensings	Lab date selection algorithm	Lab Result Values
41	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
42	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
78	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
43	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
44	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
<i>Medical Product Use</i>								
45	N	1	N/A	N/A	N/A	N/A	N/A	N/A
46	N	1	N/A	N/A	N/A	N/A	N/A	N/A
47	N	1	N/A	N/A	N/A	N/A	N/A	N/A
48	N	1	N/A	N/A	N/A	N/A	N/A	N/A
49	N	1	N/A	N/A	N/A	N/A	N/A	N/A
50	N	1	N/A	N/A	N/A	N/A	N/A	N/A
81	N	1	7	N/A	N/A	N/A	N/A	N/A
82	N	1	N/A	150	N/A	N/A	N/A	N/A
83	N	1	N/A	N/A	N/A	N/A	N/A	N/A
84	N	1	N/A	150	N/A	N/A	N/A	N/A
79	N	3	N/A	N/A	N/A	N/A	N/A	N/A
<i>Other Characteristics</i>								
51	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
52	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
53	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
54	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
55	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
56	N/A	1	N/A	N/A	N/A	N/A	LRO	Positive
57	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
58	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A

**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum average daily dose	Maximum average daily dose	Forced supply to attach to dispensings	Lab date selection algorithm	Lab Result Values
59	N/A	1	N/A	N/A	N/A	N/A	LRO	Positive
60	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
61	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
62	N/A	1	N/A	N/A	N/A	N/A	LRO	Positive
Respiratory Infection Markers Assessed Days {-3, 0}								
90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
68	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
69	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
71	N/A	1	N/A	N/A	N/A	N/A	LRO	Positive
72	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
73	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



**Appendix U. Specifications of Parameters Used to Define Covariates in this Request**

Covariate Number	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum average daily dose	Maximum average daily dose	Forced supply to attach to dispensings	Lab date selection algorithm	Lab Result Values
74	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
75	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
76	N/A	1	N/A	N/A	N/A	N/A	LRO*	Positive
<i>Health Service Utilization Intensity Metrics in Prior Six Months</i>								
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A

\*CCW: Chronic Conditions Data Warehouse

\*IP: Inpatient

\*IS: Institutional Stay

\*LRO: Lab Date, Result Date, Order Date

**Appendix V. Specifications of Look Back Periods for Pregnancy Exclusions in this Request**

Cond Level	Code	Description	Days to Subtract from 43		Evaluation
			Weeks (301 Days) to Determine Lookback	Period Start	
Gestational Age Codes					
Prolonged	O481	Prolonged pregnancy	294	-7	14
Prolonged	P0822	Prolonged gestation of newborn	294	-7	14
Greater_42	Z3A49	Greater than 42 weeks gestation of pregnancy	301	0	14
Postterm	O480	Post-term pregnancy	287	-14	14
Postterm	P0821	Post-term newborn	287	-14	14
gest42	Z3A42	42 weeks gestation of pregnancy	298	-3	14
gest41	Z3A41	41 weeks gestation of pregnancy	291	-10	14
gest40	Z3A40	40 weeks gestation of pregnancy	284	-17	14
gest39	Z3A39	39 weeks gestation of pregnancy	277	-24	14
gest38	Z3A38	38 weeks gestation of pregnancy	270	-31	14
gest37	Z3A37	37 weeks gestation of pregnancy	263	-38	14
gest36	P0739	Preterm newborn, gestational age 36 completed weeks	256	-45	14
gest36	Z3A36	36 weeks gestation of pregnancy	256	-45	14
gest35	P0738	Preterm newborn, gestational age 35 completed weeks	249	-52	14
gest35	Z3A35	35 weeks gestation of pregnancy	249	-52	14
gest34	P0737	Preterm newborn, gestational age 34 completed weeks	242	-59	14
gest34	Z3A34	34 weeks gestation of pregnancy	242	-59	14
gest33	P0736	Preterm newborn, gestational age 33 completed weeks	235	-66	14
gest33	Z3A33	33 weeks gestation of pregnancy	235	-66	14
gest32	P0735	Preterm newborn, gestational age 32 completed weeks	228	-73	14
gest32	Z3A32	32 weeks gestation of pregnancy	228	-73	14
gest31	P0734	Preterm newborn, gestational age 31 completed weeks	221	-80	14
gest31	Z3A31	31 weeks gestation of pregnancy	221	-80	14
gest30	P0733	Preterm newborn, gestational age 30 completed weeks	214	-87	14
gest30	Z3A30	30 weeks gestation of pregnancy	214	-87	14
gest29	P0732	Preterm newborn, gestational age 29 completed weeks	207	-94	14
gest29	Z3A29	29 weeks gestation of pregnancy	207	-94	14
gest28	P0731	Preterm newborn, gestational age 28 completed weeks	200	-101	14
gest28	Z3A28	28 weeks gestation of pregnancy	200	-101	14
gest27	P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	193	-108	14
gest27	Z3A27	27 weeks gestation of pregnancy	193	-108	14

**Appendix V. Specifications of Look Back Periods for Pregnancy Exclusions in this Request**

Cond Level	Code	Description	Days to Subtract from 43		Evaluation Period Start	Evaluation Period End
			Weeks (301 Days) to Determine Lookback	Weeks (301 Days) to Determine Lookback		
gest26	P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	186		-115	14
gest26	Z3A26	26 weeks gestation of pregnancy	186		-115	14
gest25	P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	179		-122	14
gest25	Z3A25	25 weeks gestation of pregnancy	179		-122	14
gest24	P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	172		-129	14
gest24	Z3A24	24 weeks gestation of pregnancy	172		-129	14
gest23	P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	165		-136	14
gest23	Z3A23	23 weeks gestation of pregnancy	165		-136	14
gest22	P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	158		-143	14
gest22	Z3A22	22 weeks gestation of pregnancy	158		-143	14
gest21	Z3A21	21 weeks gestation of pregnancy	151		-150	14
gest20	Z3A20	20 weeks gestation of pregnancy	144		-157	14
Newborn_usp	P0720	Extreme immaturity of newborn, unspecified weeks of gestation	196		-105	14
preterm_third	O6013X0	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X1	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X2	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X3	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X4	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X5	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6013X9	Preterm labor second trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X0	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X1	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X2	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X3	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X4	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X5	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	O6014X9	Preterm labor third trimester with preterm delivery third trimester	245		-56	14
preterm_third	P0730	Preterm newborn, unspecified weeks of gestation	245		-56	14
preterm_second	O6012X0	Preterm labor second trimester with preterm delivery second trimester	168		-133	14
preterm_second	O6012X1	Preterm labor second trimester with preterm delivery second trimester	168		-133	14
preterm_second	O6012X2	Preterm labor second trimester with preterm delivery second trimester	168		-133	14
preterm_second	O6012X3	Preterm labor second trimester with preterm delivery second trimester	168		-133	14

**Appendix V. Specifications of Look Back Periods for Pregnancy Exclusions in this Request**

Cond Level	Code	Description	Days to Subtract from 43	Evaluation	
			Weeks (301 Days) to Determine Lookback	Period Start	Evaluation Period End
preterm_second	O6012X4	Preterm labor second trimester with preterm delivery second trimester	168	-133	14
preterm_second	O6012X5	Preterm labor second trimester with preterm delivery second trimester	168	-133	14
preterm_second	O6012X9	Preterm labor second trimester with preterm delivery second trimester	168	-133	14
<b>Prenatal Tests</b>					
Nuchal	76813	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; single or first gestation	77	-224	14
Nuchal	76814	Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; each additional gestation (List separately in addition to code for primary procedure)	77	-224	14
Chorionic	59015	Chorionic villus sampling, any method	70	-231	14
Papp	84163	Pregnancy-associated plasma protein-A (PAPP-A)	105	-196	14
Strep	87081	Culture, presumptive, pathogenic organisms, screening only;	245	-56	14
Estriol	82677	Estriol	105	-196	14
Inhibin	86336	Inhibin A	105	-196	14
Aneuploidy	81420	Fetal chromosomal aneuploidy (eg, trisomy 21, monosomy X) genomic sequence analysis panel, circulating cell-free fetal DNA in maternal blood, must include analysis of chromosomes 13, 18, and 21	63	-238	14
Anatomic	76811	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; single or first gestation	126	-175	14
Anatomic	76812	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; each additional gestation (List separately in addition to code for primary	126	-175	14
Alphaprotein	82106	Alpha-fetoprotein (AFP); amniotic fluid	105	-196	14
Glucose	82950	Glucose; post glucose dose (includes glucose)	168	-133	14
Glucose	82951	Glucose; tolerance test (GTT), 3 specimens (includes glucose)	168	-133	14
Ultrasound	76805	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; single or first gestation	126	-175	14

**Appendix V. Specifications of Look Back Periods for Pregnancy Exclusions in this Request**

<b>Cond Level</b>	<b>Code</b>	<b>Description</b>	<b>Days to Subtract from 43 Weeks (301 Days) to Determine Lookback</b>	<b>Evaluation Period Start</b>	<b>Evaluation Period End</b>
Ultrasound	76810	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; each additional gestation (List separately in addition to code for primary	126	-175	14

Appendix W. Design Diagrams Detailing Cohort Entry and Signal Identification Outcome Assessment in this Request

Figure 1. Overall Cohort (Ages 12 and Older)

**Overall Cohort**

