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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_mpl1p_wp076

Request ID: cder_mpl1p_wp076

Request Description: In this report, we describe infants in the Mother-Infant Linkage (MIL) table of the Sentinel Distributed Database (SDD) paired to a mother via a live-birth delivery in the MIL table, as well as infants without paired mothers in the MIL table. This is Report 2 of 3. The first report includes data from all five Sentinel Data Partners that populated the MIL table. The current report (2 of 3) includes only Medicaid data that populated the MIL table. Data from the remaining four non-Medicaid data partners is included in Report 3 of 3.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 10.3.2, with custom programming.

Data Source: We distributed this request to the Center for Medicare and Medicaid Services - Medicaid Data that populated the MIL table on November 7, 2023. The study period included live-birth deliveries from January 1, 2014 through December 31, 2020. Please see Appendix A for a list of available data dates.

Study Design: We used a CIDA 'Type 4' study design with custom programming to assess: 1) infant demographic characteristics, 2) mother demographics and delivery characteristics among infants with paired mothers, 3) evidence of certain major congenital malformations, comorbidities, immunizations, and medication dispensings in the infants' first 365 days of enrollment, and 4) evidence of certain neonatal outcomes and medication administrations in the infants' first 28 days of enrollment. We described three populations overall: 1) all infants paired to mothers (regardless of delivery type), 2) all infants paired to mothers via a live-birth singleton delivery, and 3) infants without paired mothers. There is no overlap between the paired and unpaired infant cohorts; they are mutually exclusive. We present characteristics of the latter two populations stratified by infant's first continuous enrollment duration (<1 month, 1-6 months, 6-12 months, 12-24 months, and >24 months). We additionally present characteristics of infants paired to mothers via a live-birth singleton delivery stratified by mother's age at delivery (10-17, 18-39, and 40-54 years) and length of mother's pre-delivery enrollment (<391 and >=391 days).

Pregnancy Episode Creation: We identified live-birth deliveries and estimated the pregnancy episode start date using a claims-based algorithm¹⁻³. The algorithm prioritizes International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes over International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes to assign gestational age, which can be any set of NDCs, procedure or diagnosis codes, and laboratory result values found in the data, and both diagnosis codes for pre-term and post-term deliveries. Codes had to occur within seven days of a delivery date in the inpatient setting. In the absence of pre-/post-term or gestational week codes, pregnancy duration was set to 273 days. Pregnancies were excluded from the cohort if there was evidence of another delivery in the 180 days before the delivery date of interest. Please see Appendix B for the list of ICD-9-CM and ICD-10 CM codes used to identify live-birth deliveries. The original algorithm¹⁻³ identifying gestational age was modified to include ICD-10-CM codes.

Overview for Request: cder_mpl1p_wp076

Cohort Eligibility Criteria: Only infants from live-birth deliveries present in the MIL table were considered for the cohort. To be eligible for the MIL table, infant date of birth must be at least one year later than the start of Data Partner data availability and they must have at least one day of enrollment with medical coverage during their first year of life. In order to successfully link a mother to her infant via the live-birth delivery, the delivery encounter must have occurred at least one year later than the start of Data Partner data availability, and the mother had to be between 10 and 54 years of age with at least 180 days of continuous medical coverage (gaps of up to 45 days allowed) without evidence of delivery in the 180 days prior to index live-birth delivery. We additionally required mothers to be enrolled in health plans with medical and drug coverage in the 391 days prior to their delivery date in order to be included in the cohort; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. For infants paired to a mother, infants were required to have medical and drug coverage at enrollment start. There was no limitation set on the length of time between infant birth date and enrollment start. The infant's birth date was required to be within three days of the delivery date (defined as the admission date for the delivery encounter).

Baseline Characteristics: We assessed mother demographics and delivery characteristics, and infant demographics, medication administrations, medication dispensing, immunizations, comorbidities, neonatal outcomes, and major congenital malformations within the infant, mother, or both medical records at 0-28, 0-365, or 29-365 days, depending on the characteristic of interest. Please see Appendix C for a list of ICD-9-CM, ICD-10-CM, International Classification of Diseases, Tenth Revision, Procedural Classification System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes used to define baseline characteristics in this request. Please see Appendix D for a list of ICD-9-CM, ICD-10-CM, HCPCS, and CPT-4 codes used to define live birth delivery exclusion in this request. Please see Appendix E for a list of generic and brand name medical products used to define baseline characteristics in this request. Please see Appendices F, G and H for specifications defining parameters and Appendix I for diagrams detailing the design of this request.

Limitations: Algorithms used to estimate pregnancy duration, baseline characteristics, and exposures are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (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>).

¹ Andrade, S. E., et al. (2012). "Medication Exposure in Pregnancy Risk Evaluation Program." *Maternal Child Health J* 16(7):1349-1354.

² Kawai AT, Li L, Kulldorff M, et al. Mini-Sentinel CBER/PRISM Surveillance Protocol Influenza Vaccines and Pregnancy Outcome. Version 2. <https://www.sentinelinitiative.org/vaccines-blood-biologics/assessments/influenza-vaccines-and-pregnancy-outcomes-prism> 2014; Accessed July 7, 2014

³ Li Q, Andrade SE, Cooper WO, et al. Validation of an algorithm to estimate gestational age in electronic health plan databases. *Pharmacoepidemiol Drug Saf.* 2013 May;22(5):524-32. doi:10.1002/pds.3407

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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).

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

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.

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

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Characteristic	Number	
Number of unique infants	2,088,630	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	17,280	0.8%
2015	111,211	5.3%
2016	228,548	10.9%
2017	452,585	21.7%
2018	448,293	21.5%
2019	436,952	20.9%
2020	393,761	18.9%
Sex		
Female	*****	0.0%
Male	1,065,489	51.0%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	931,135	44.6%
American Indian or Alaska Native	46,432	2.2%
Asian	47,932	2.3%
Black or African American	414,894	19.9%
Multi-racial	4,522	0.2%
Native Hawaiian or Other Pacific Islander	7,759	0.4%
White	635,956	30.4%
Hispanic origin		
Hispanic or Latino	349,479	16.7%
Not Hispanic or Latino	1,157,979	55.4%
Unknown	581,172	27.8%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	8.7	150.9
Birth-Enrollment Gap Categories		
≤14 Days	1,901,941	91.1%
15-30 Days	24,887	1.2%
31-90 Days	45,806	2.2%
>90 Days	115,996	5.6%
Mean Continuous Enrollment (Days)	679.6	473.9
Continuous Enrollment Categories		
≤30 Days	69,246	3.3%
31-183 Days	279,612	13.4%
184-365 Days	300,683	14.4%
366-729 Days	583,262	27.9%
≥730 Days	855,827	41.0%
Birth type		
Singleton	1,776,014	85.0%
Multiples	150,103	7.2%
Unknown	162,513	7.8%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	62,809	3.0%
18-39	1,983,963	95.0%
40-54	41,858	2.0%
Length of Pre-Delivery Coverage		
<391 Days	316,706	15.2%
≥391 Days	1,771,924	84.8%
Mean Gestational Age at Delivery (Weeks)³	39.5	1.8
Delivery Status		
Pre-term (0-258 days gestation)	181,327	8.7%
Term (259-280 days gestation)	1,197,313	57.3%
Post-term (281-301 days)	431,042	20.6%
Unknown Term	278,948	13.4%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	27,842	1.3%
Ampicillin	3,135	0.2%
Cefotaxime	413	0.0%
Corticosteroid administration	8,736	0.4%
Gentamicin	2,129	0.1%
Opioid administration	18,477	0.9%
Surfactant administration	1,079	0.1%
Vitamin administration	4,716	0.2%
Vitamin K administration	2,483	0.1%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	2,936	0.1%
Fetal Alcohol Syndrome	1,629	0.1%
Low Birth Weight	98,259	4.7%
Necrotizing Enterocolitis	2,372	0.1%
Neonatal Abstinence Syndrome	67,791	3.2%
Neonatal Sepsis	1,926	0.1%
Retinopathy of Prematurity	7,176	0.3%
Respiratory Distress Syndrome	65,638	3.1%
Evidence of Medication Dispensings		
Antibiotics	257,499	12.3%
Anticonvulsants	30,149	1.4%
Antidiabetic agents	25,692	1.2%
Antihistamines	39,491	1.9%
Antihypertensives	13,298	0.6%
Asthma medications	35,580	1.7%
Glucocorticoids	69,581	3.3%
Proton pump inhibitors	19,705	0.9%
Evidence of Immunizations		
Hepatitis B	29,529	1.4%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	104,656	5.0%
Anemia	274,959	13.2%
Asthma	101,317	4.9%
Cancer of the Brain & Other Parts of the Central Nervous System (CNS)	91	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	554	0.0%
Cancer, Other	1,284	0.1%
Diabetes Mellitus (DM)	32,887	1.6%
Epilepsy	11,822	0.6%
Gastroesophageal Reflux Disease (GERD)	86,618	4.1%
Hypertension	38,109	1.8%
Influenza	3,852	0.2%
Intellectual Disabilities and Related Conditions	7,688	0.4%
Irritable bowel syndrome	2,443	0.1%
Measles	19	0.0%
Meningitis	2,600	0.1%
Mumps	23	0.0%
Otitis Media	5,222	0.3%
Pertussis	95	0.0%
Pneumonia	8,885	0.4%
Rubella	343	0.0%
Sickle Cell Disease	2,115	0.1%
Sinusitis	6,421	0.3%
COVID-19	6,086	0.3%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	4,829	0.2%
Ampicillin	1,393	0.1%
Cefotaxime	323	0.0%
Corticosteroid administration	270	0.0%
Gentamicin	853	0.0%
Opioid administration	177	0.0%
Surfactant administration	1,022	0.0%
Vitamin administration	3,136	0.2%
Vitamin K administration	2,225	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	2,773	0.1%
Fetal Alcohol Syndrome	1,401	0.1%
Low Birth Weight	83,501	4.0%
Necrotizing Enterocolitis	2,055	0.1%
Neonatal Abstinence Syndrome	60,399	2.9%
Neonatal Sepsis	1,900	0.1%
Retinopathy of Prematurity	6,271	0.3%
Respiratory Distress Syndrome	53,759	2.6%
Evidence of Medication Dispensings		
Antibiotics	29,761	1.4%
Anticonvulsants	1,124	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	228	0.0%
Antihypertensives	155	0.0%
Asthma medications	1,682	0.1%
Glucocorticoids	8,330	0.4%
Proton pump inhibitors	933	0.0%
Evidence of Immunizations		
Hepatitis B	24,814	1.2%
COVID -19 Vaccine	0	0.0%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	69,875	3.3%
Anemia	10,687	0.5%
Asthma	486	0.0%
Cancer of the Brain & Other Parts of the CNS	14	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	77	0.0%
Cancer, Other	147	0.0%
Diabetes mellitus (DM)	502	0.0%
Epilepsy	1,146	0.1%
Gastroesophageal Reflux Disease (GERD)	48,129	2.3%
Hypertension	727	0.0%
Influenza	1,136	0.1%
Intellectual Disabilities and Related Conditions	5,365	0.3%
Irritable bowel syndrome	38	0.0%
Measles	*****	0.0%
Meningitis	2,111	0.1%
Mumps	*****	0.0%
Otitis Media	1,707	0.1%
Pertussis	67	0.0%
Pneumonia	3,433	0.2%
Rubella	36	0.0%
Sickle Cell Disease	680	0.0%
Sinusitis	355	0.0%
COVID-19	375	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	650,171	31.1%
Anticonvulsants	6,238	0.3%
Antidiabetic agents	49	0.0%
Antihistamines	155,342	7.4%
Antihypertensives	2,194	0.1%
Asthma medications	228,694	10.9%
Glucocorticoids	422,791	20.2%
Proton pump inhibitors	22,217	1.1%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Immunizations		
Hepatitis A	12,964	0.6%
Hepatitis B	1,149,028	55.0%
Diphtheria, tetanus, acellular pertussis	1,172,761	56.1%
Haemophilus influenza type B	1,162,774	55.7%
Inactivated Poliovirus	1,168,637	56.0%
Influenza (Live Attenuated or Inactivated)	398,411	19.1%
Measles, Mumps, Rubella	17,351	0.8%
Meningococcal (A, C, W, Y)	1,382	0.1%
Pneumococcal (PCV13 only)	1,161,709	55.6%
Rotavirus	1,045,184	50.0%
Varicella	12,779	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	365,135	17.5%
Anemia	43,986	2.1%
Asthma	59,344	2.8%
Cancer of the Brain & Other Parts of the CNS	78	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	265	0.0%
Cancer, Other	563	0.0%
Diabetes mellitus (DM)	573	0.0%
Epilepsy	7,546	0.4%
Gastroesophageal Reflux Disease (GERD)	188,446	9.0%
Hypertension	3,143	0.2%
Influenza	77,020	3.7%
Intellectual Disabilities and Related Conditions	4,874	0.2%
Irritable bowel syndrome	145	0.0%
Measles	142	0.0%
Meningitis	2,797	0.1%
Mumps	22	0.0%
Otitis Media	436,711	20.9%
Pertussis	1,874	0.1%
Pneumonia	59,899	2.9%
Rubella	115	0.0%
Sickle Cell Disease	1,853	0.1%
Sinusitis	40,383	1.9%
COVID-19	6,283	0.3%

Table 1. Characteristics of All Linked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	340	0.0%
Holoprosencephaly	2,015	0.1%
Microcephalus	7,212	0.3%
Spina bifida	1,943	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	399	0.0%
Anotia, microtia	776	0.0%
Cataracts and other lens defects	1,118	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	1,463	0.1%
Pulmonary venous return, anomalous coronary artery	611	0.0%
Severe cardiac defects	29,562	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	521	0.0%
Cleft palate/lip	4,481	0.2%
Gastrointestinal		
Biliary atresia	641	0.0%
Esophageal atresia + tracheoesophageal fistula	534	0.0%
Exstrophy, bladder	84	0.0%
Intestinal atresia/stenosis	3,377	0.2%
Pyloric stenosis	6,323	0.3%
Genitourinary/renal		
Congenital hydronephrosis	16,353	0.8%
Hypospadias — second or third degree	9,599	0.5%
Posterior urethral valve/and/or prune belly	72	0.0%
Renal agenesis/hypoplasia	2,319	0.1%
Renal dysplasia	1,768	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	999	0.0%
Gastroschisis or omphalocele	5,650	0.3%
Limb deficiency	675	0.0%
Sacral agenesis	1,706	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for preterm and post term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Characteristic	Number	
Number of unique infants	1,776,014	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	10,321	0.6%
2015	74,447	4.2%
2016	189,264	10.7%
2017	380,413	21.4%
2018	388,004	21.8%
2019	379,637	21.4%
2020	353,928	19.9%
Sex		
Female	*****	0.0%
Male	905,730	51.0%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	804,856	45.3%
American Indian or Alaska Native	40,808	2.3%
Asian	41,672	2.3%
Black or African American	341,325	19.2%
Multi-racial	3,755	0.2%
Native Hawaiian or Other Pacific Islander	6,589	0.4%
White	537,009	30.2%
Hispanic origin		
Hispanic or Latino	308,839	17.4%
Not Hispanic or Latino	971,495	54.7%
Unknown	495,680	27.9%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	16.9	137.9
Birth-Enrollment Gap Categories		
≤14 Days	1,644,560	92.6%
15-30 Days	21,180	1.2%
31-90 Days	37,063	2.1%
>90 Days	73,211	4.1%
Mean Continuous Enrollment (Days)	698.5	475.5
Continuous Enrollment Categories		
≤30 Days	55,419	3.1%
31-183 Days	224,512	12.6%
184-365 Days	238,342	13.4%
366-729 Days	497,024	28.0%
≥730 Days	760,717	42.8%
Birth type		
Singleton	1,776,014	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.1	5.8
Age at Delivery		
10-17	53,252	3.0%
18-39	1,687,370	95.0%
40-54	35,392	2.0%
Length of Pre-Delivery Coverage		
<391 Days	260,994	14.7%
≥391 Days	1,515,020	85.3%
Mean Gestational Age at Delivery (Weeks)³	39.6	1.7
Delivery Status		
Pre-term (0-258 days gestation)	135,575	7.6%
Term (259-280 days gestation)	1,100,913	62.0%
Post-term (281-301 days)	397,229	22.4%
Unknown Term	142,297	8.0%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	23,210	1.3%
Ampicillin	2,597	0.1%
Cefotaxime	358	0.0%
Corticosteroid administration	7,306	0.4%
Gentamicin	1,796	0.1%
Opioid administration	15,423	0.9%
Surfactant administration	717	0.0%
Vitamin administration	3,566	0.2%
Vitamin K administration	1,844	0.1%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,949	0.1%
Fetal Alcohol Syndrome	1,340	0.1%
Low Birth Weight	64,464	3.6%
Necrotizing Enterocolitis	1,701	0.1%
Neonatal Abstinence Syndrome	56,661	3.2%
Neonatal Sepsis	1,087	0.10%
Retinopathy of Prematurity	4,607	0.30%
Respiratory Distress Syndrome	48,050	2.70%
Evidence of Medication Dispensings		
Antibiotics	217,771	12.3%
Anticonvulsants	24,353	1.4%
Antidiabetic agents	20,507	1.2%
Antihistamines	32,691	1.8%
Antihypertensives	10,279	0.6%
Asthma medications	29,260	1.6%
Glucocorticoids	59,074	3.3%
Proton pump inhibitors	16,438	0.9%
Evidence of Immunizations		
Hepatitis B	25,659	1.4%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	91,981	5.2%
Anemia	230,378	13.0%
Asthma	85,929	4.8%
Cancer of the Brain & Other Parts of the CNS	73	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	465	0.0%
Cancer, Other	1,062	0.1%
Diabetes mellitus (DM)	26,161	1.5%
Epilepsy	9,872	0.6%
Gastroesophageal Reflux Disease (GERD)	74,902	4.2%
Hypertension	30,204	1.7%
Influenza	3,306	0.2%
Intellectual Disabilities and Related Conditions	6,407	0.4%
Irritable bowel syndrome	2,049	0.1%
Measles	19	0.0%
Meningitis	2,204	0.1%
Mumps	21	0.0%
Otitis Media	4,588	0.3%
Pertussis	84	0.0%
Pneumonia	7,086	0.4%
Rubella	316	0.0%
Sickle Cell Disease	1,715	0.1%
Sinusitis	5,508	0.3%
COVID-19	5,438	0.3%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	4,042	0.2%
Ampicillin	1,220	0.1%
Cefotaxime	278	0.0%
Corticosteroid administration	246	0.0%
Gentamicin	735	0.0%
Opioid administration	159	0.0%
Surfactant administration	679	0.0%
Vitamin administration	2,343	0.1%
Vitamin K administration	1,631	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,838	0.1%
Fetal Alcohol Syndrome	1,136	0.1%
Low Birth Weight	54,648	3.1%
Necrotizing Enterocolitis	1,489	0.1%
Neonatal Abstinence Syndrome	49,946	2.8%
Neonatal Sepsis	1,069	0.1%
Retinopathy of Prematurity	4,011	0.2%
Respiratory Distress Syndrome	39,020	2.2%
Evidence of Medication Dispensings		
Antibiotics	26,369	1.5%
Anticonvulsants	911	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	202	0.0%
Antihypertensives	127	0.0%
Asthma medications	1,496	0.1%
Glucocorticoids	7,430	0.4%
Proton pump inhibitors	839	0.0%
Evidence of Immunizations		
Hepatitis B	21,337	1.2%
COVID -19 Vaccine	0	0.0%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	61,257	3.4%
Anemia	8,775	0.5%
Asthma	425	0.0%
Cancer of the Brain & Other Parts of the CNS	11	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	64	0.0%
Cancer, Other	117	0.0%
Diabetes mellitus (DM)	414	0.0%
Epilepsy	972	0.1%
Gastroesophageal Reflux Disease (GERD)	41,988	2.4%
Hypertension	582	0.0%
Influenza	1,007	0.1%
Intellectual Disabilities and Related Conditions	4,452	0.3%
Irritable bowel syndrome	33	0.0%
Measles	*****	0.0%
Meningitis	1,786	0.1%
Mumps	*****	0.0%
Otitis Media	1,531	0.1%
Pertussis	59	0.0%
Pneumonia	2,888	0.2%
Rubella	34	0.0%
Sickle Cell Disease	543	0.0%
Sinusitis	315	0.0%
COVID-19	335	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	571,127	32.2%
Anticonvulsants	5,173	0.3%
Antidiabetic agents	40	0.0%
Antihistamines	139,212	7.8%
Antihypertensives	1,789	0.1%
Asthma medications	198,724	11.2%
Glucocorticoids	371,058	20.9%
Proton pump inhibitors	18,996	1.1%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Immunizations		
Hepatitis A	11,486	0.6%
Hepatitis B	999,661	56.3%
Diphtheria, tetanus, acellular pertussis	1,019,557	57.4%
Haemophilus influenza type B	1,011,110	56.9%
Inactivated Poliovirus	1,015,980	57.2%
Influenza (Live Attenuated or Inactivated)	349,635	19.7%
Measles, Mumps, Rubella	15,540	0.9%
Meningococcal (A, C, W, Y)	1,226	0.1%
Pneumococcal (PCV13 only)	1,010,232	56.9%
Rotavirus	909,511	51.2%
Varicella	11,377	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	324,174	18.3%
Anemia	37,599	2.1%
Asthma	51,402	2.9%
Cancer of the Brain & Other Parts of the CNS	69	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	231	0.0%
Cancer, Other	482	0.0%
Diabetes mellitus (DM)	490	0.0%
Epilepsy	6,447	0.4%
Gastroesophageal Reflux Disease (GERD)	162,576	9.2%
Hypertension	2,552	0.1%
Influenza	68,554	3.9%
Intellectual Disabilities and Related Conditions	4,135	0.2%
Irritable bowel syndrome	125	0.0%
Measles	131	0.0%
Meningitis	2,350	0.1%
Mumps	21	0.0%
Otitis Media	386,124	21.7%
Pertussis	1,647	0.1%
Pneumonia	51,939	2.9%
Rubella	101	0.0%
Sickle Cell Disease	1,538	0.1%
Sinusitis	35,620	2.0%
COVID-19	5,715	0.3%

Table 2a. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	283	0.0%
Holoprosencephaly	1,701	0.1%
Microcephalus	6,203	0.3%
Spina bifida	1,632	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	348	0.0%
Anotia, microtia	672	0.0%
Cataracts and other lens defects	959	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	1,229	0.1%
Pulmonary venous return, anomalous coronary artery	520	0.0%
Severe cardiac defects	24,921	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	433	0.0%
Cleft palate/lip	3,899	0.2%
Gastrointestinal		
Biliary atresia	540	0.0%
Esophageal atresia + tracheoesophageal fistula	429	0.0%
Exstrophy, bladder	70	0.0%
Intestinal atresia/stenosis	2,846	0.2%
Pyloric stenosis	5,520	0.3%
Genitourinary/renal		
Congenital hydronephrosis	14,149	0.8%
Hypospadias — second or third degree	8,287	0.5%
Posterior urethral valve/and/or prune belly	57	0.0%
Renal agenesis/hypoplasia	1,985	0.1%
Renal dysplasia	1,526	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	829	0.0%
Gastroschisis or omphalocele	4,837	0.3%
Limb deficiency	555	0.0%
Sacral agenesis	1,458	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for preterm and post term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Characteristic	Number	
Number of unique infants	260,994	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	10,321	4.0%
2015	25,184	9.6%
2016	64,848	24.8%
2017	54,110	20.7%
2018	32,811	12.6%
2019	38,584	14.8%
2020	35,136	13.5%
Sex		
Female	128,086	49.1%
Male	132,908	50.9%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	107,851	41.3%
American Indian or Alaska Native	4,758	1.8%
Asian	6,578	2.5%
Black or African American	54,186	20.8%
Multi-racial	731	0.3%
Native Hawaiian or Other Pacific Islander	1,038	0.4%
White	85,852	32.9%
Hispanic origin		
Hispanic or Latino	40,074	15.4%
Not Hispanic or Latino	153,205	58.7%
Unknown	67,715	25.9%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	7.1	113.6
Birth-Enrollment Gap Categories		
≤14 Days	243,955	93.5%
15-30 Days	2,767	1.1%
31-90 Days	4,141	1.6%
>90 Days	10,131	3.9%
Mean Continuous Enrollment (Days)	819.8	560.8
Continuous Enrollment Categories		
≤30 Days	13,216	5.1%
31-183 Days	27,032	10.4%
184-365 Days	24,201	9.3%
366-729 Days	60,175	23.1%
≥730 Days	136,370	52.3%
Birth type		
Singleton	260,994	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	26.8	5.6
Age at Delivery		
10-17	6,707	2.6%
18-39	249,937	95.8%
40-54	4,350	1.7%
Length of Pre-Delivery Coverage		
<391 Days	260,994	100.0%
≥391 Days	0	0.0%
Mean Gestational Age at Delivery (Weeks)³	39.7	1.6
Delivery Status		
Pre-term (0-258 days gestation)	18,554	7.1%
Term (259-280 days gestation)	151,741	58.1%
Post-term (281-301 days)	60,891	23.3%
Unknown Term	29,808	11.4%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	3,248	1.2%
Ampicillin	377	0.1%
Cefotaxime	65	0.0%
Corticosteroid administration	984	0.4%
Gentamicin	252	0.1%
Opioid administration	2,206	0.8%
Surfactant administration	91	0.0%
Vitamin administration	394	0.2%
Vitamin K administration	221	0.1%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	256	0.1%
Fetal Alcohol Syndrome	171	0.1%
Low Birth Weight	9,022	3.5%
Necrotizing Enterocolitis	236	0.1%
Neonatal Abstinence Syndrome	8,099	3.1%
Neonatal Sepsis	405	0.2%
Retinopathy of Prematurity	635	0.2%
Respiratory Distress Syndrome	6,774	2.6%
Evidence of Medication Dispensings		
Antibiotics	32,002	12.3%
Anticonvulsants	3,009	1.2%
Antidiabetic agents	2,503	1.0%
Antihistamines	4,308	1.7%
Antihypertensives	1,474	0.6%
Asthma medications	3,960	1.5%
Glucocorticoids	8,142	3.1%
Proton pump inhibitors	2,210	0.8%
Evidence of Immunizations		
Hepatitis B	4,053	1.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	12,583	4.8%
Anemia	31,932	12.2%
Asthma	11,306	4.3%
Cancer of the Brain & Other Parts of the CNS	17	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	62	0.0%
Cancer, Other	158	0.1%
Diabetes mellitus (DM)	3,417	1.3%
Epilepsy	1,314	0.5%
Gastroesophageal Reflux Disease (GERD)	10,862	4.2%
Hypertension	4,215	1.6%
Influenza	683	0.3%
Intellectual Disabilities and Related Conditions	850	0.3%
Irritable bowel syndrome	274	0.1%
Measles	0	0.0%
Meningitis	301	0.1%
Mumps	*****	0.0%
Otitis Media	768	0.3%
Pertussis	14	0.0%
Pneumonia	1,117	0.4%
Rubella	40	0.0%
Sickle Cell Disease	243	0.1%
Sinusitis	882	0.3%
COVID-19	520	0.2%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	678	0.3%
Ampicillin	186	0.1%
Cefotaxime	52	0.0%
Corticosteroid administration	42	0.0%
Gentamicin	116	0.0%
Opioid administration	31	0.0%
Surfactant administration	88	0.0%
Vitamin administration	255	0.1%
Vitamin K administration	194	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	244	0.1%
Fetal Alcohol Syndrome	150	0.1%
Low Birth Weight	7,830	3.0%
Necrotizing Enterocolitis	204	0.1%
Neonatal Abstinence Syndrome	7,196	2.8%
Neonatal Sepsis	396	0.2%
Retinopathy of Prematurity	564	0.2%
Respiratory Distress Syndrome	5,609	2.1%
Evidence of Medication Dispensings		
Antibiotics	3,906	1.5%
Anticonvulsants	140	0.1%
Antidiabetic agents	0	0.0%
Antihistamines	40	0.0%
Antihypertensives	17	0.0%
Asthma medications	318	0.1%
Glucocorticoids	1,117	0.4%
Proton pump inhibitors	136	0.1%
Evidence of Immunizations		
Hepatitis B	3,583	1.4%
COVID -19 Vaccine	0	0.0%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	8,525	3.3%
Anemia	1,266	0.5%
Asthma	56	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	11	0.0%
Cancer, Other	21	0.0%
Diabetes mellitus (DM)	57	0.0%
Epilepsy	141	0.1%
Gastroesophageal Reflux Disease (GERD)	6,403	2.5%
Hypertension	72	0.0%
Influenza	230	0.1%
Intellectual Disabilities and Related Conditions	618	0.2%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	252	0.1%
Mumps	*****	0.0%
Otitis Media	289	0.1%
Pertussis	*****	0.0%
Pneumonia	504	0.2%
Rubella	*****	0.0%
Sickle Cell Disease	85	0.0%
Sinusitis	58	0.0%
COVID-19	38	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	87,671	33.6%
Anticonvulsants	766	0.3%
Antidiabetic agents	*****	0.0%
Antihistamines	22,009	8.4%
Antihypertensives	248	0.1%
Asthma medications	30,099	11.5%
Glucocorticoids	56,770	21.8%
Proton pump inhibitors	2,955	1.1%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Evidence of Immunizations		
Hepatitis A	1,804	0.7%
Hepatitis B	148,673	57.0%
Diphtheria, tetanus, acellular pertussis	150,842	57.8%
Haemophilus influenza type B	149,668	57.3%
Inactivated Poliovirus	150,329	57.6%
Influenza (Live Attenuated or Inactivated)	49,746	19.1%
Measles, Mumps, Rubella	2,249	0.9%
Meningococcal (A, C, W, Y)	188	0.1%
Pneumococcal (PCV13 only)	149,045	57.1%
Rotavirus	135,072	51.8%
Varicella	1,850	0.7%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	49,228	18.9%
Anemia	5,647	2.2%
Asthma	8,097	3.1%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	44	0.0%
Cancer, Other	82	0.0%
Diabetes mellitus (DM)	99	0.0%
Epilepsy	970	0.4%
Gastroesophageal Reflux Disease (GERD)	24,935	9.6%
Hypertension	341	0.1%
Influenza	7,651	2.9%
Intellectual Disabilities and Related Conditions	580	0.2%
Irritable bowel syndrome	19	0.0%
Measles	*****	0.0%
Meningitis	309	0.1%
Mumps	*****	0.0%
Otitis Media	59,472	22.8%
Pertussis	221	0.1%
Pneumonia	7,991	3.1%
Rubella	13	0.0%
Sickle Cell Disease	241	0.1%
Sinusitis	5,965	2.3%
COVID-19	524	0.2%

Table 2b. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than 391 Days Pre-Delivery Coverage

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	40	0.0%
Holoprosencephaly	229	0.1%
Microcephalus	857	0.3%
Spina bifida	229	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	39	0.0%
Anotia, microtia	84	0.0%
Cataracts and other lens defects	134	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	172	0.1%
Pulmonary venous return, anomalous coronary artery	75	0.0%
Severe cardiac defects	3,344	1.3%
Orofacial/respiratory		
Choanal atresia/stenosis	61	0.0%
Cleft palate/lip	539	0.2%
Gastrointestinal		
Biliary atresia	63	0.0%
Esophageal atresia + tracheoesophageal fistula	63	0.0%
Exstrophy, bladder	*****	0.0%
Intestinal atresia/stenosis	365	0.1%
Pyloric stenosis	809	0.3%
Genitourinary/renal		
Congenital hydronephrosis	1,887	0.7%
Hypospadias — second or third degree	1,197	0.5%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	254	0.1%
Renal dysplasia	218	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	124	0.0%
Gastroschisis or omphalocele	671	0.3%
Limb deficiency	80	0.0%
Sacral agenesis	204	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for preterm and post term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Characteristic	Number	
Number of unique infants	1,515,020	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	49,263	3.3%
2016	124,416	8.2%
2017	326,303	21.5%
2018	355,193	23.4%
2019	341,053	22.5%
2020	318,792	21.0%
Sex		
Female	*****	0.0%
Male	772,822	51.0%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	697,005	46.0%
American Indian or Alaska Native	36,050	2.4%
Asian	35,094	2.3%
Black or African American	287,139	19.0%
Multi-racial	3,024	0.2%
Native Hawaiian or Other Pacific Islander	5,551	0.4%
White	451,157	29.8%
Hispanic origin		
Hispanic or Latino	268,765	17.7%
Not Hispanic or Latino	818,290	54.0%
Unknown	427,965	28.2%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	18.6	141.5
Birth-Enrollment Gap Categories		
≤14 Days	1,400,605	92.4%
15-30 Days	18,413	1.2%
31-90 Days	32,922	2.2%
>90 Days	63,080	4.2%
Mean Continuous Enrollment (Days)	677.6	455.9
Continuous Enrollment Categories		
≤30 Days	42,203	2.8%
31-183 Days	197,480	13.0%
184-365 Days	214,141	14.1%
366-729 Days	436,849	28.8%
≥730 Days	624,347	41.2%
Birth type		
Singleton	1,515,020	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	46,545	3.1%
18-39	1,437,433	94.9%
40-54	31,042	2.0%
Length of Pre-Delivery Coverage		
<391 Days	0	0.0%
≥391 Days	1,515,020	100.0%
Mean Gestational Age at Delivery (Weeks)³	39.6	1.7
Delivery Status		
Pre-term (0-258 days gestation)	117,021	7.7%
Term (259-280 days gestation)	949,172	62.7%
Post-term (281-301 days)	336,338	22.2%
Unknown Term	112,489	7.4%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	19,962	1.3%
Ampicillin	2,220	0.1%
Cefotaxime	293	0.0%
Corticosteroid administration	6,322	0.4%
Gentamicin	1,544	0.1%
Opioid administration	13,217	0.9%
Surfactant administration	626	0.0%
Vitamin administration	3,172	0.2%
Vitamin K administration	1,623	0.1%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,693	0.1%
Fetal Alcohol Syndrome	1,169	0.1%
Low Birth Weight	55,442	3.7%
Necrotizing Enterocolitis	1,465	0.1%
Neonatal Abstinence Syndrome	48,562	3.2%
Neonatal Sepsis	682	0.0%
Retinopathy of Prematurity	3,972	0.3%
Respiratory Distress Syndrome	41,276	2.7%
Evidence of Medication Dispensings		
Antibiotics	185,769	12.3%
Anticonvulsants	21,344	1.4%
Antidiabetic agents	18,004	1.2%
Antihistamines	28,383	1.9%
Antihypertensives	8,805	0.6%
Asthma medications	25,300	1.7%
Glucocorticoids	50,932	3.4%
Proton pump inhibitors	14,228	0.9%
Evidence of Immunizations		
Hepatitis B	21,606	1.4%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	79,398	5.2%
Anemia	198,446	13.1%
Asthma	74,623	4.9%
Cancer of the Brain & Other Parts of the CNS	56	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	403	0.0%
Cancer, Other	904	0.1%
Diabetes mellitus (DM)	22,744	1.5%
Epilepsy	8,558	0.6%
Gastroesophageal Reflux Disease (GERD)	64,040	4.2%
Hypertension	25,989	1.7%
Influenza	2,623	0.2%
Intellectual Disabilities and Related Conditions	5,557	0.4%
Irritable bowel syndrome	1,775	0.1%
Measles	19	0.0%
Meningitis	1,903	0.1%
Mumps	16	0.0%
Otitis Media	3,820	0.3%
Pertussis	70	0.0%
Pneumonia	5,969	0.4%
Rubella	276	0.0%
Sickle Cell Disease	1,472	0.1%
Sinusitis	4,626	0.3%
COVID-19	4,918	0.3%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	3,364	0.2%
Ampicillin	1,034	0.1%
Cefotaxime	226	0.0%
Corticosteroid administration	204	0.0%
Gentamicin	619	0.0%
Opioid administration	128	0.0%
Surfactant administration	591	0.0%
Vitamin administration	2,088	0.1%
Vitamin K administration	1,437	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,594	0.1%
Fetal Alcohol Syndrome	986	0.1%
Low Birth Weight	46,818	3.1%
Necrotizing Enterocolitis	1,285	0.1%
Neonatal Abstinence Syndrome	42,750	2.8%
Neonatal Sepsis	673	0.0%
Retinopathy of Prematurity	3,447	0.2%
Respiratory Distress Syndrome	33,411	2.2%
Evidence of Medication Dispensings		
Antibiotics	22,463	1.5%
Anticonvulsants	771	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	162	0.0%
Antihypertensives	110	0.0%
Asthma medications	1,178	0.1%
Glucocorticoids	6,313	0.4%
Proton pump inhibitors	703	0.0%
Evidence of Immunizations		
Hepatitis B	17,754	1.2%
COVID -19 Vaccine	0	0.0%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	52,732	3.5%
Anemia	7,509	0.5%
Asthma	369	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	53	0.0%
Cancer, Other	96	0.0%
Diabetes mellitus (DM)	357	0.0%
Epilepsy	831	0.1%
Gastroesophageal Reflux Disease (GERD)	35,585	2.3%
Hypertension	510	0.0%
Influenza	777	0.1%
Intellectual Disabilities and Related Conditions	3,834	0.3%
Irritable bowel syndrome	26	0.0%
Measles	*****	0.0%
Meningitis	1,534	0.1%
Mumps	*****	0.0%
Otitis Media	1,242	0.1%
Pertussis	50	0.0%
Pneumonia	2,384	0.2%
Rubella	28	0.0%
Sickle Cell Disease	458	0.0%
Sinusitis	257	0.0%
COVID-19	297	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	483,456	31.9%
Anticonvulsants	4,407	0.3%
Antidiabetic agents	32	0.0%
Antihistamines	117,203	7.7%
Antihypertensives	1,541	0.1%
Asthma medications	168,625	11.1%
Glucocorticoids	314,288	20.7%
Proton pump inhibitors	16,041	1.1%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Evidence of Immunizations		
Hepatitis A	9,682	0.6%
Hepatitis B	850,988	56.2%
Diphtheria, tetanus, acellular pertussis	868,715	57.3%
Haemophilus influenza type B	861,442	56.9%
Inactivated Poliovirus	865,651	57.1%
Influenza (Live Attenuated or Inactivated)	299,889	19.8%
Measles, Mumps, Rubella	13,291	0.9%
Meningococcal (A, C, W, Y)	1,038	0.1%
Pneumococcal (PCV13 only)	861,187	56.8%
Rotavirus	774,439	51.1%
Varicella	9,527	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	274,946	18.1%
Anemia	31,952	2.1%
Asthma	43,305	2.9%
Cancer of the Brain & Other Parts of the CNS	59	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	187	0.0%
Cancer, Other	400	0.0%
Diabetes mellitus (DM)	391	0.0%
Epilepsy	5,477	0.4%
Gastroesophageal Reflux Disease (GERD)	137,641	9.1%
Hypertension	2,211	0.1%
Influenza	60,903	4.0%
Intellectual Disabilities and Related Conditions	3,555	0.2%
Irritable bowel syndrome	106	0.0%
Measles	124	0.0%
Meningitis	2,041	0.1%
Mumps	18	0.0%
Otitis Media	326,652	21.6%
Pertussis	1,426	0.1%
Pneumonia	43,948	2.9%
Rubella	88	0.0%
Sickle Cell Disease	1,297	0.1%
Sinusitis	29,655	2.0%
COVID-19	5,191	0.3%

Table 2c. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Had Less than or Equal to 391 Days Pre-Delivery Coverage

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	243	0.0%
Holoprosencephaly	1,472	0.1%
Microcephalus	5,346	0.4%
Spina bifida	1,403	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	309	0.0%
Anotia, microtia	588	0.0%
Cataracts and other lens defects	825	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	1,057	0.1%
Pulmonary venous return, anomalous coronary artery	445	0.0%
Severe cardiac defects	21,577	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	372	0.0%
Cleft palate/lip	3,360	0.2%
Gastrointestinal		
Biliary atresia	477	0.0%
Esophageal atresia + tracheoesophageal fistula	366	0.0%
Exstrophy, bladder	63	0.0%
Intestinal atresia/stenosis	2,481	0.2%
Pyloric stenosis	4,711	0.3%
Genitourinary/renal		
Congenital hydronephrosis	12,262	0.8%
Hypospadias — second or third degree	7,090	0.5%
Posterior urethral valve/and/or prune belly	47	0.0%
Renal agenesis/hypoplasia	1,731	0.1%
Renal dysplasia	1,308	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	705	0.0%
Gastroschisis or omphalocele	4,166	0.3%
Limb deficiency	475	0.0%
Sacral agenesis	1,254	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for preterm and post term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Characteristic	Number	
Number of unique infants	53,252	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	579	1.1%
2015	3,919	7.4%
2016	7,469	14.0%
2017	11,303	21.2%
2018	10,898	20.5%
2019	10,052	18.9%
2020	9,032	17.0%
Sex		
Female	26,007	48.8%
Male	27,245	51.2%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	25,063	47.1%
American Indian or Alaska Native	1,938	3.6%
Asian	336	0.6%
Black or African American	11,988	22.5%
Multi-racial	165	0.3%
Native Hawaiian or Other Pacific Islander	110	0.2%
White	13,652	25.6%
Hispanic origin		
Hispanic or Latino	12,166	22.8%
Not Hispanic or Latino	28,203	53.0%
Unknown	12,883	24.2%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	2.4	99.8
Birth-Enrollment Gap Categories		
≤14 Days	49,366	92.7%
15-30 Days	573	1.1%
31-90 Days	1,092	2.1%
>90 Days	2,221	4.2%
Mean Continuous Enrollment (Days)	700.6	490.1
Continuous Enrollment Categories		
≤30 Days	1,775	3.3%
31-183 Days	6,898	13.0%
184-365 Days	7,185	13.5%
366-729 Days	14,817	27.8%
≥730 Days	22,577	42.4%
Birth type		
Singleton	53,252	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	16.9	0.9
Age at Delivery		
10-17	53,252	100.0%
18-39	0	0.0%
40-54	0	0.0%
Length of Pre-Delivery Coverage		
<391 Days	6,707	12.6%
≥391 Days	46,545	87.4%
Mean Gestational Age at Delivery (Weeks)³	39.6	1.9
Delivery Status		
Pre-term (0-258 days gestation)	4,369	8.2%
Term (259-280 days gestation)	29,015	54.5%
Post-term (281-301 days)	15,203	28.5%
Unknown Term	4,665	8.8%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	748	1.4%
Ampicillin	85	0.2%
Cefotaxime	11	0.0%
Corticosteroid administration	178	0.3%
Gentamicin	53	0.1%
Opioid administration	371	0.7%
Surfactant administration	27	0.1%
Vitamin administration	81	0.2%
Vitamin K administration	34	0.1%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	74	0.1%
Fetal Alcohol Syndrome	29	0.1%
Low Birth Weight	2,358	4.4%
Necrotizing Enterocolitis	67	0.1%
Neonatal Abstinence Syndrome	624	1.2%
Neonatal Sepsis	96	0.2%
Retinopathy of Prematurity	202	0.4%
Respiratory Distress Syndrome	1,525	2.9%
Evidence of Medication Dispensings		
Antibiotics	6,103	11.5%
Anticonvulsants	262	0.5%
Antidiabetic agents	93	0.2%
Antihistamines	789	1.5%
Antihypertensives	164	0.3%
Asthma medications	762	1.4%
Glucocorticoids	1,349	2.5%
Proton pump inhibitors	205	0.4%
Evidence of Immunizations		
Hepatitis B	716	1.3%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	2,547	4.8%
Anemia	6,851	12.9%
Asthma	2,518	4.7%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	*****	0.0%
Diabetes mellitus (DM)	207	0.4%
Epilepsy	242	0.5%
Gastroesophageal Reflux Disease (GERD)	1,816	3.4%
Hypertension	431	0.8%
Influenza	114	0.2%
Intellectual Disabilities and Related Conditions	188	0.4%
Irritable bowel syndrome	20	0.0%
Measles	0	0.0%
Meningitis	115	0.2%
Mumps	*****	0.0%
Otitis Media	137	0.3%
Pertussis	*****	0.0%
Pneumonia	225	0.4%
Rubella	*****	0.0%
Sickle Cell Disease	51	0.1%
Sinusitis	138	0.3%
COVID-19	168	0.3%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	106	0.2%
Ampicillin	38	0.1%
Cefotaxime	*****	0.0%
Corticosteroid administration	12	0.0%
Gentamicin	19	0.0%
Opioid administration	*****	0.0%
Surfactant administration	26	0.0%
Vitamin administration	42	0.1%
Vitamin K administration	30	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	69	0.1%
Fetal Alcohol Syndrome	27	0.1%
Low Birth Weight	2,072	3.9%
Necrotizing Enterocolitis	60	0.1%
Neonatal Abstinence Syndrome	557	1.0%
Neonatal Sepsis	96	0.2%
Retinopathy of Prematurity	184	0.3%
Respiratory Distress Syndrome	1,308	2.5%
Evidence of Medication Dispensings		
Antibiotics	761	1.4%
Anticonvulsants	18	0.0%
Antidiabetic agents	0	0.0%
Antihistamines	*****	0.0%
Antihypertensives	*****	0.0%
Asthma medications	46	0.1%
Glucocorticoids	231	0.4%
Proton pump inhibitors	21	0.0%
Evidence of Immunizations		
Hepatitis B	612	1.1%
COVID -19 Vaccine	0	0.0%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,673	3.1%
Anemia	275	0.5%
Asthma	18	0.0%
Cancer of the Brain & Other Parts of the CNS	0	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	*****	0.0%
Diabetes mellitus (DM)	17	0.0%
Epilepsy	28	0.1%
Gastroesophageal Reflux Disease (GERD)	1,322	2.5%
Hypertension	16	0.0%
Influenza	33	0.1%
Intellectual Disabilities and Related Conditions	134	0.3%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	100	0.2%
Mumps	0	0.0%
Otitis Media	41	0.1%
Pertussis	*****	0.0%
Pneumonia	110	0.2%
Rubella	*****	0.0%
Sickle Cell Disease	*****	0.0%
Sinusitis	12	0.0%
COVID-19	14	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	18,798	35.3%
Anticonvulsants	170	0.3%
Antidiabetic agents	*****	0.0%
Antihistamines	5,253	9.9%
Antihypertensives	47	0.1%
Asthma medications	6,382	12.0%
Glucocorticoids	11,711	22.0%
Proton pump inhibitors	426	0.8%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Evidence of Immunizations		
Hepatitis A	342	0.6%
Hepatitis B	31,332	58.8%
Diphtheria, tetanus, acellular pertussis	31,894	59.9%
Haemophilus influenza type B	31,637	59.4%
Inactivated Poliovirus	31,847	59.8%
Influenza (Live Attenuated or Inactivated)	11,575	21.7%
Measles, Mumps, Rubella	378	0.7%
Meningococcal (A, C, W, Y)	50	0.1%
Pneumococcal (PCV13 only)	31,629	59.4%
Rotavirus	28,937	54.3%
Varicella	340	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	11,445	21.5%
Anemia	1,203	2.3%
Asthma	1,732	3.3%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	*****	0.0%
Diabetes mellitus (DM)	26	0.0%
Epilepsy	248	0.5%
Gastroesophageal Reflux Disease (GERD)	5,144	9.7%
Hypertension	74	0.1%
Influenza	2,222	4.2%
Intellectual Disabilities and Related Conditions	112	0.2%
Irritable bowel syndrome	*****	0.0%
Measles	*****	0.0%
Meningitis	108	0.2%
Mumps	*****	0.0%
Otitis Media	13,149	24.7%
Pertussis	59	0.1%
Pneumonia	1,911	3.6%
Rubella	*****	0.0%
Sickle Cell Disease	38	0.1%
Sinusitis	1,157	2.2%
COVID-19	194	0.4%

Table 2d. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 10-17 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	*****	0.0%
Holoprosencephaly	78	0.1%
Microcephalus	261	0.5%
Spina bifida	28	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	11	0.0%
Anotia, microtia	16	0.0%
Cataracts and other lens defects	26	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	44	0.1%
Pulmonary venous return, anomalous coronary artery	19	0.0%
Severe cardiac defects	716	1.3%
Orofacial/respiratory		
Choanal atresia/stenosis	*****	0.0%
Cleft palate/lip	110	0.2%
Gastrointestinal		
Biliary atresia	18	0.0%
Esophageal atresia + tracheoesophageal fistula	*****	0.0%
Exstrophy, bladder	0	0.0%
Intestinal atresia/stenosis	68	0.1%
Pyloric stenosis	221	0.4%
Genitourinary/renal		
Congenital hydronephrosis	395	0.7%
Hypospadias — second or third degree	196	0.4%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	47	0.1%
Renal dysplasia	35	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	29	0.1%
Gastroschisis or omphalocele	181	0.3%
Limb deficiency	17	0.0%
Sacral agenesis	44	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Characteristic	Number	
Number of unique infants	1,687,370	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	9,609	0.6%
2015	69,583	4.1%
2016	178,982	10.6%
2017	361,629	21.4%
2018	369,274	21.9%
2019	361,489	21.4%
2020	336,804	20.0%
Sex		
Female	*****	49.0%
Male	860,477	51.0%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	763,102	45.2%
American Indian or Alaska Native	38,201	2.3%
Asian	39,495	2.3%
Black or African American	323,519	19.2%
Multi-racial	3,549	0.2%
Native Hawaiian or Other Pacific Islander	6,294	0.4%
White	513,210	30.4%
Hispanic origin		
Hispanic or Latino	290,955	17.2%
Not Hispanic or Latino	924,584	54.8%
Unknown	471,831	28.0%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	17.1	138.0
Birth-Enrollment Gap Categories		
≤14 Days	1,562,815	92.6%
15-30 Days	20,131	1.2%
31-90 Days	35,131	2.1%
>90 Days	69,293	4.1%
Mean Continuous Enrollment (Days)	698.2	475.1
Continuous Enrollment Categories		
≤30 Days	52,509	3.1%
31-183 Days	213,200	12.6%
184-365 Days	226,349	13.4%
366-729 Days	472,918	28.0%
≥730 Days	722,394	42.8%
Birth type		
Singleton	1,687,370	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.2
Age at Delivery		
10-17	0	0.0%
18-39	1,687,370	100.0%
40-54	0	0.0%
Length of Pre-Delivery Coverage		
<391 Days	249,937	14.8%
≥391 Days	1,437,433	85.2%
Mean Gestational Age at Delivery (Weeks)³	39.6	1.7
Delivery Status		
Pre-term (0-258 days gestation)	127,560	7.6%
Term (259-280 days gestation)	1,048,841	62.2%
Post-term (281-301 days)	376,367	22.3%
Unknown Term	134,602	8.0%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	21,954	1.3%
Ampicillin	2,476	0.1%
Cefotaxime	343	0.0%
Corticosteroid administration	6,989	0.4%
Gentamicin	1,714	0.1%
Opioid administration	14,773	0.9%
Surfactant administration	669	0.0%
Vitamin administration	3,335	0.2%
Vitamin K administration	1,740	0.1%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,833	0.1%
Fetal Alcohol Syndrome	1,260	0.1%
Low Birth Weight	60,356	3.6%
Necrotizing Enterocolitis	1,592	0.1%
Neonatal Abstinence Syndrome	55,130	3.3%
Neonatal Sepsis	973	0.1%
Retinopathy of Prematurity	4,276	0.3%
Respiratory Distress Syndrome	45,277	2.7%
Evidence of Medication Dispensings		
Antibiotics	207,181	12.3%
Anticonvulsants	23,432	1.4%
Antidiabetic agents	18,894	1.1%
Antihistamines	30,882	1.8%
Antihypertensives	9,444	0.6%
Asthma medications	27,593	1.6%
Glucocorticoids	55,852	3.3%
Proton pump inhibitors	15,553	0.9%
Evidence of Immunizations		
Hepatitis B	24,398	1.4%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	87,596	5.2%
Anemia	218,767	13.0%
Asthma	82,064	4.9%
Cancer of the Brain & Other Parts of the CNS	70	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	441	0.0%
Cancer, Other	992	0.1%
Diabetes mellitus (DM)	24,361	1.4%
Epilepsy	9,460	0.6%
Gastroesophageal Reflux Disease (GERD)	71,664	4.2%
Hypertension	27,979	1.7%
Influenza	3,135	0.2%
Intellectual Disabilities and Related Conditions	5,900	0.3%
Irritable bowel syndrome	1,972	0.1%
Measles	17	0.0%
Meningitis	2,062	0.1%
Mumps	20	0.0%
Otitis Media	4,365	0.3%
Pertussis	80	0.0%
Pneumonia	6,665	0.4%
Rubella	299	0.0%
Sickle Cell Disease	1,638	0.1%
Sinusitis	5,236	0.3%
COVID-19	5,108	0.3%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	3,850	0.2%
Ampicillin	1,167	0.1%
Cefotaxime	266	0.0%
Corticosteroid administration	232	0.0%
Gentamicin	703	0.0%
Opioid administration	151	0.0%
Surfactant administration	632	0.0%
Vitamin administration	2,211	0.1%
Vitamin K administration	1,538	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	1,730	0.1%
Fetal Alcohol Syndrome	1,064	0.1%
Low Birth Weight	51,188	3.0%
Necrotizing Enterocolitis	1,395	0.1%
Neonatal Abstinence Syndrome	48,612	2.9%
Neonatal Sepsis	956	0.1%
Retinopathy of Prematurity	3,723	0.2%
Respiratory Distress Syndrome	36,763	2.2%
Evidence of Medication Dispensings		
Antibiotics	25,174	1.5%
Anticonvulsants	873	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	195	0.0%
Antihypertensives	119	0.0%
Asthma medications	1,433	0.1%
Glucocorticoids	7,036	0.4%
Proton pump inhibitors	805	0.0%
Evidence of Immunizations		
Hepatitis B	20,284	1.2%
COVID -19 Vaccine	0	0.0%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	58,476	3.5%
Anemia	8,341	0.5%
Asthma	405	0.0%
Cancer of the Brain & Other Parts of the CNS	11	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	60	0.0%
Cancer, Other	113	0.0%
Diabetes mellitus (DM)	380	0.0%
Epilepsy	926	0.1%
Gastroesophageal Reflux Disease (GERD)	40,053	2.4%
Hypertension	553	0.0%
Influenza	960	0.1%
Intellectual Disabilities and Related Conditions	4,064	0.2%
Irritable bowel syndrome	30	0.0%
Measles	*****	0.0%
Meningitis	1,663	0.1%
Mumps	*****	0.0%
Otitis Media	1,466	0.1%
Pertussis	56	0.0%
Pneumonia	2,727	0.2%
Rubella	32	0.0%
Sickle Cell Disease	524	0.0%
Sinusitis	299	0.0%
COVID-19	313	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	542,597	32.2%
Anticonvulsants	4,892	0.3%
Antidiabetic agents	35	0.0%
Antihistamines	131,569	7.8%
Antihypertensives	1,671	0.1%
Asthma medications	189,200	11.2%
Glucocorticoids	352,202	20.9%
Proton pump inhibitors	18,201	1.1%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Evidence of Immunizations		
Hepatitis A	10,909	0.6%
Hepatitis B	950,190	56.3%
Diphtheria, tetanus, acellular pertussis	968,939	57.4%
Haemophilus influenza type B	960,996	57.0%
Inactivated Poliovirus	965,540	57.2%
Influenza (Live Attenuated or Inactivated)	330,943	19.6%
Measles, Mumps, Rubella	14,753	0.9%
Meningococcal (A, C, W, Y)	1,132	0.1%
Pneumococcal (PCV13 only)	960,098	56.9%
Rotavirus	864,183	51.2%
Varicella	10,813	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	307,180	18.2%
Anemia	35,546	2.1%
Asthma	48,891	2.9%
Cancer of the Brain & Other Parts of the CNS	66	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	219	0.0%
Cancer, Other	461	0.0%
Diabetes mellitus (DM)	454	0.0%
Epilepsy	6,085	0.4%
Gastroesophageal Reflux Disease (GERD)	154,757	9.2%
Hypertension	2,406	0.1%
Influenza	65,176	3.9%
Intellectual Disabilities and Related Conditions	3,791	0.2%
Irritable bowel syndrome	123	0.0%
Measles	122	0.0%
Meningitis	2,204	0.1%
Mumps	19	0.0%
Otitis Media	366,546	21.7%
Pertussis	1,551	0.1%
Pneumonia	49,246	2.9%
Rubella	92	0.0%
Sickle Cell Disease	1,470	0.1%
Sinusitis	33,949	2.0%
COVID-19	5,397	0.3%

Table 2e. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 18-39 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	273	0.0%
Holoprosencephaly	1,576	0.1%
Microcephalus	5,810	0.3%
Spina bifida	1,580	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	322	0.0%
Anotia, microtia	642	0.0%
Cataracts and other lens defects	913	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	1,152	0.1%
Pulmonary venous return, anomalous coronary artery	486	0.0%
Severe cardiac defects	23,333	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	424	0.0%
Cleft palate/lip	3,699	0.2%
Gastrointestinal		
Biliary atresia	503	0.0%
Esophageal atresia + tracheoesophageal fistula	408	0.0%
Exstrophy, bladder	64	0.0%
Intestinal atresia/stenosis	2,664	0.2%
Pyloric stenosis	5,209	0.3%
Genitourinary/renal		
Congenital hydronephrosis	13,391	0.8%
Hypospadias — second or third degree	7,913	0.5%
Posterior urethral valve/and/or prune belly	52	0.0%
Renal agenesis/hypoplasia	1,879	0.1%
Renal dysplasia	1,443	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	770	0.0%
Gastroschisis or omphalocele	4,578	0.3%
Limb deficiency	521	0.0%
Sacral agenesis	1,376	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Characteristic	Number	
Number of unique infants	35,392	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	133	0.4%
2015	945	2.7%
2016	2,813	7.9%
2017	7,481	21.1%
2018	7,832	22.1%
2019	8,096	22.9%
2020	8,092	22.9%
Sex		
Female	17,384	49.1%
Male	18,008	50.9%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	16,691	47.2%
American Indian or Alaska Native	669	1.9%
Asian	1,841	5.2%
Black or African American	5,818	16.4%
Multi-racial	41	0.1%
Native Hawaiian or Other Pacific Islander	185	0.5%
White	10,147	28.7%
Hispanic origin		
Hispanic or Latino	5,718	16.2%
Not Hispanic or Latino	18,708	52.9%
Unknown	10,966	31.0%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	29.7	174.9
Birth-Enrollment Gap Categories		
≤14 Days	32,379	91.5%
15-30 Days	476	1.3%
31-90 Days	840	2.4%
>90 Days	1,697	4.8%
Mean Continuous Enrollment (Days)	707.8	472.5
Continuous Enrollment Categories		
≤30 Days	1,135	3.2%
31-183 Days	4,414	12.5%
184-365 Days	4,808	13.6%
366-729 Days	9,289	26.2%
≥730 Days	15,746	44.5%
Birth type		
Singleton	35,392	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	41.9	1.7
Age at Delivery		
10-17	0	0.0%
18-39	0	0.0%
40-54	35,392	100.0%
Length of Pre-Delivery Coverage		
<391 Days	4,350	12.3%
≥391 Days	31,042	87.7%
Mean Gestational Age at Delivery (Weeks)³	39.3	1.8
Delivery Status		
Pre-term (0-258 days gestation)	3,646	10.3%
Term (259-280 days gestation)	23,057	65.1%
Post-term (281-301 days)	5,659	16.0%
Unknown Term	3,030	8.6%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	508	1.4%
Ampicillin	36	0.1%
Cefotaxime	*****	0.0%
Corticosteroid administration	139	0.4%
Gentamicin	29	0.1%
Opioid administration	279	0.8%
Surfactant administration	21	0.1%
Vitamin administration	150	0.4%
Vitamin K administration	70	0.2%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	42	0.1%
Fetal Alcohol Syndrome	51	0.1%
Low Birth Weight	1,750	4.9%
Necrotizing Enterocolitis	42	0.1%
Neonatal Abstinence Syndrome	907	2.6%
Neonatal Sepsis	18	0.1%
Retinopathy of Prematurity	129	0.4%
Respiratory Distress Syndrome	1,248	3.5%
Evidence of Medication Dispensings		
Antibiotics	4,487	12.7%
Anticonvulsants	659	1.9%
Antidiabetic agents	1,520	4.3%
Antihistamines	1,020	2.9%
Antihypertensives	671	1.9%
Asthma medications	905	2.6%
Glucocorticoids	1,873	5.3%
Proton pump inhibitors	680	1.9%
Evidence of Immunizations		
Hepatitis B	545	1.5%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,838	5.2%
Anemia	4,760	13.4%
Asthma	1,347	3.8%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	16	0.0%
Cancer, Other	62	0.2%
Diabetes mellitus (DM)	1,593	4.5%
Epilepsy	170	0.5%
Gastroesophageal Reflux Disease (GERD)	1,422	4.0%
Hypertension	1,794	5.1%
Influenza	57	0.2%
Intellectual Disabilities and Related Conditions	319	0.9%
Irritable bowel syndrome	57	0.2%
Measles	*****	0.0%
Meningitis	27	0.1%
Mumps	0	0.0%
Otitis Media	86	0.2%
Pertussis	*****	0.0%
Pneumonia	196	0.6%
Rubella	*****	0.0%
Sickle Cell Disease	26	0.1%
Sinusitis	134	0.4%
COVID-19	162	0.5%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	86	0.2%
Ampicillin	15	0.0%
Cefotaxime	*****	0.0%
Corticosteroid administration	*****	0.0%
Gentamicin	13	0.0%
Opioid administration	*****	0.0%
Surfactant administration	21	0.1%
Vitamin administration	90	0.3%
Vitamin K administration	63	0.2%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	39	0.1%
Fetal Alcohol Syndrome	45	0.1%
Low Birth Weight	1,388	3.9%
Necrotizing Enterocolitis	34	0.1%
Neonatal Abstinence Syndrome	777	2.2%
Neonatal Sepsis	17	0.0%
Retinopathy of Prematurity	104	0.3%
Respiratory Distress Syndrome	949	2.7%
Evidence of Medication Dispensings		
Antibiotics	434	1.2%
Anticonvulsants	20	0.1%
Antidiabetic agents	0	0.0%
Antihistamines	*****	0.0%
Antihypertensives	*****	0.0%
Asthma medications	17	0.0%
Glucocorticoids	163	0.5%
Proton pump inhibitors	13	0.0%
Evidence of Immunizations		
Hepatitis B	441	1.2%
COVID -19 Vaccine	0	0.0%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,108	3.1%
Anemia	159	0.4%
Asthma	*****	0.0%
Cancer of the Brain & Other Parts of the CNS	0	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	*****	0.0%
Diabetes mellitus (DM)	17	0.0%
Epilepsy	18	0.1%
Gastroesophageal Reflux Disease (GERD)	613	1.7%
Hypertension	13	0.0%
Influenza	14	0.0%
Intellectual Disabilities and Related Conditions	254	0.7%
Irritable bowel syndrome	0	0.0%
Measles	0	0.0%
Meningitis	23	0.1%
Mumps	0	0.0%
Otitis Media	24	0.1%
Pertussis	*****	0.0%
Pneumonia	51	0.1%
Rubella	*****	0.0%
Sickle Cell Disease	10	0.0%
Sinusitis	*****	0.0%
COVID-19	*****	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	9,732	27.5%
Anticonvulsants	111	0.3%
Antidiabetic agents	*****	0.0%
Antihistamines	2,390	6.8%
Antihypertensives	71	0.2%
Asthma medications	3,142	8.9%
Glucocorticoids	7,145	20.2%
Proton pump inhibitors	369	1.0%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Evidence of Immunizations		
Hepatitis A	235	0.7%
Hepatitis B	18,139	51.3%
Diphtheria, tetanus, acellular pertussis	18,724	52.9%
Haemophilus influenza type B	18,477	52.2%
Inactivated Poliovirus	18,593	52.5%
Influenza (Live Attenuated or Inactivated)	7,117	20.1%
Measles, Mumps, Rubella	409	1.2%
Meningococcal (A, C, W, Y)	44	0.1%
Pneumococcal (PCV13 only)	16,391	46.3%
Rotavirus	18,505	52.3%
Varicella	224	0.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	5,549	15.7%
Anemia	850	2.4%
Asthma	779	2.2%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	13	0.0%
Diabetes mellitus (DM)	*****	0.0%
Epilepsy	114	0.3%
Gastroesophageal Reflux Disease (GERD)	2,675	7.6%
Hypertension	72	0.2%
Influenza	1,156	3.3%
Intellectual Disabilities and Related Conditions	232	0.7%
Irritable bowel syndrome	0	0.0%
Measles	*****	0.0%
Meningitis	38	0.1%
Mumps	*****	0.0%
Otitis Media	6,429	18.2%
Pertussis	37	0.1%
Pneumonia	782	2.2%
Rubella	*****	0.0%
Sickle Cell Disease	30	0.1%
Sinusitis	514	1.5%
COVID-19	124	0.4%

Table 2f. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose Mothers Were 40-54 Years Old at Delivery

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	*****	0.0%
Holoprosencephaly	47	0.1%
Microcephalus	132	0.4%
Spina bifida	24	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	15	0.0%
Anotia, microtia	14	0.0%
Cataracts and other lens defects	20	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	33	0.1%
Pulmonary venous return, anomalous coronary artery	15	0.0%
Severe cardiac defects	872	2.5%
Orofacial/respiratory		
Choanal atresia/stenosis	*****	0.0%
Cleft palate/lip	90	0.3%
Gastrointestinal		
Biliary atresia	19	0.1%
Esophageal atresia + tracheoesophageal fistula	11	0.0%
Exstrophy, bladder	*****	0.0%
Intestinal atresia/stenosis	114	0.3%
Pyloric stenosis	90	0.3%
Genitourinary/renal		
Congenital hydronephrosis	363	1.0%
Hypospadias — second or third degree	178	0.5%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	59	0.2%
Renal dysplasia	48	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	30	0.1%
Gastroschisis or omphalocele	78	0.2%
Limb deficiency	17	0.0%
Sacral agenesis	38	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Characteristic	Number	
Number of unique infants	55,419	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	922	1.7%
2015	3,415	6.2%
2016	4,985	9.0%
2017	5,105	9.2%
2018	2,575	4.6%
2019	5,903	10.7%
2020	32,514	58.7%
Sex		
Female	27,008	48.7%
Male	28,411	51.3%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	29,762	53.7%
American Indian or Alaska Native	713	1.3%
Asian	737	1.3%
Black or African American	10,390	18.7%
Multi-racial	81	0.1%
Native Hawaiian or Other Pacific Islander	182	0.3%
White	13,554	24.5%
Hispanic origin		
Hispanic or Latino	7,302	13.2%
Not Hispanic or Latino	25,702	46.4%
Unknown	22,415	40.4%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	8.3	106.1
Birth-Enrollment Gap Categories		
≤14 Days	50,879	91.8%
15-30 Days	667	1.2%
31-90 Days	1,121	2.0%
>90 Days	2,752	5.0%
Mean Continuous Enrollment (Days)	29.9	0.4
Continuous Enrollment Categories		
≤30 Days	55,419	100.0%
31-183 Days	0	0.0%
184-365 Days	0	0.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	55,419	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	1,775	3.2%
18-39	52,509	94.7%
40-54	1,135	2.0%
Length of Pre-Delivery Coverage		
<391 Days	13,216	23.8%
≥391 Days	42,203	76.2%
Mean Gestational Age at Delivery Weeks³	39.2	2.7
Delivery Status		
Pre-term (0-258 days gestation)	5,634	10.2%
Term (259-280 days gestation)	33,987	61.3%
Post-term (281-301 days)	10,631	19.2%
Unknown Term	5,167	9.3%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	462	0.8%
Ampicillin	72	0.1%
Cefotaxime	*****	0.0%
Corticosteroid administration	141	0.3%
Gentamicin	53	0.1%
Opioid administration	374	0.7%
Surfactant administration	73	0.1%
Vitamin administration	87	0.2%
Vitamin K administration	53	0.1%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	23	0.0%
Fetal Alcohol Syndrome	56	0.1%
Low Birth Weight	2,596	4.7%
Necrotizing Enterocolitis	80	0.1%
Neonatal Abstinence Syndrome	1,808	3.3%
Neonatal Sepsis	21	0.0%
Retinopathy of Prematurity	58	0.1%
Respiratory Distress Syndrome	1,865	3.4%
Evidence of Medication Dispensings		
Antibiotics	4,465	8.1%
Anticonvulsants	646	1.2%
Antidiabetic agents	550	1.0%
Antihistamines	764	1.4%
Antihypertensives	287	0.5%
Asthma medications	651	1.2%
Glucocorticoids	1,196	2.2%
Proton pump inhibitors	420	0.8%
Evidence of Immunizations		
Hepatitis B	721	1.3%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,777	3.2%
Anemia	7,502	13.5%
Asthma	2,809	5.1%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	18	0.0%
Cancer, Other	35	0.1%
Diabetes mellitus (DM)	831	1.5%
Epilepsy	351	0.6%
Gastroesophageal Reflux Disease (GERD)	1,637	3.0%
Hypertension	872	1.6%
Influenza	61	0.1%
Intellectual Disabilities and Related Conditions	333	0.6%
Irritable bowel syndrome	56	0.1%
Measles	*****	0.0%
Meningitis	34	0.1%
Mumps	*****	0.0%
Otitis Media	72	0.1%
Pertussis	0	0.0%
Pneumonia	227	0.4%
Rubella	*****	0.0%
Sickle Cell Disease	50	0.1%
Sinusitis	84	0.2%
COVID-19	1,059	1.9%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	70	0.1%
Ampicillin	31	0.1%
Cefotaxime	*****	0.0%
Corticosteroid administration	*****	0.0%
Gentamicin	25	0.0%
Opioid administration	*****	0.0%
Surfactant administration	70	0.1%
Vitamin administration	54	0.1%
Vitamin K administration	47	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	21	0.0%
Fetal Alcohol Syndrome	47	0.1%
Low Birth Weight	2,328	4.2%
Necrotizing Enterocolitis	74	0.1%
Neonatal Abstinence Syndrome	1,622	2.9%
Neonatal Sepsis	20	0.0%
Retinopathy of Prematurity	48	0.1%
Respiratory Distress Syndrome	1,608	2.9%
Evidence of Medication Dispensings		
Antibiotics	334	0.6%
Anticonvulsants	14	0.0%
Antidiabetic agents	0	0.0%
Antihistamines	*****	0.0%
Antihypertensives	*****	0.0%
Asthma medications	12	0.0%
Glucocorticoids	65	0.1%
Proton pump inhibitors	13	0.0%
Evidence of Immunizations		
Hepatitis B	538	1.0%
COVID -19 Vaccine	0	0.0%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,028	1.9%
Anemia	167	0.3%
Asthma	*****	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	*****	0.0%
Diabetes mellitus (DM)	14	0.0%
Epilepsy	37	0.1%
Gastroesophageal Reflux Disease (GERD)	590	1.1%
Hypertension	25	0.0%
Influenza	13	0.0%
Intellectual Disabilities and Related Conditions	248	0.4%
Irritable bowel syndrome	0	0.0%
Measles	0	0.0%
Meningitis	28	0.1%
Mumps	0	0.0%
Otitis Media	19	0.0%
Pertussis	0	0.0%
Pneumonia	64	0.1%
Rubella	0	0.0%
Sickle Cell Disease	*****	0.0%
Sinusitis	*****	0.0%
COVID-19	53	0.1%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	584	1.1%
Anticonvulsants	*****	0.0%
Antidiabetic agents	0	0.0%
Antihistamines	105	0.2%
Antihypertensives	*****	0.0%
Asthma medications	168	0.3%
Glucocorticoids	313	0.6%
Proton pump inhibitors	24	0.0%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Evidence of Immunizations		
Hepatitis A	12	0.0%
Hepatitis B	983	1.8%
Diphtheria, tetanus, acellular pertussis	1,048	1.9%
Haemophilus influenza type B	1,031	1.9%
Inactivated Poliovirus	1,045	1.9%
Influenza (Live Attenuated or Inactivated)	394	0.7%
Measles, Mumps, Rubella	17	0.0%
Meningococcal (A, C, W, Y)	*****	0.0%
Pneumococcal (PCV13 only)	1,046	1.9%
Rotavirus	841	1.5%
Varicella	*****	0.0%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	312	0.6%
Anemia	37	0.1%
Asthma	50	0.1%
Cancer of the Brain & Other Parts of the CNS	0	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	0	0.0%
Cancer, Other	0	0.0%
Diabetes mellitus (DM)	0	0.0%
Epilepsy	*****	0.0%
Gastroesophageal Reflux Disease (GERD)	137	0.2%
Hypertension	*****	0.0%
Influenza	41	0.1%
Intellectual Disabilities and Related Conditions	*****	0.0%
Irritable bowel syndrome	0	0.0%
Measles	0	0.0%
Meningitis	*****	0.0%
Mumps	0	0.0%
Otitis Media	456	0.8%
Pertussis	0	0.0%
Pneumonia	31	0.1%
Rubella	0	0.0%
Sickle Cell Disease	*****	0.0%
Sinusitis	34	0.1%
COVID-19	13	0.0%

Table 2g. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	18	0.0%
Holoprosencephaly	80	0.1%
Microcephalus	143	0.3%
Spina bifida	53	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	*****	0.0%
Anotia, microtia	*****	0.0%
Cataracts and other lens defects	*****	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	31	0.1%
Pulmonary venous return, anomalous coronary artery	20	0.0%
Severe cardiac defects	678	1.2%
Orofacial/respiratory		
Choanal atresia/stenosis	11	0.0%
Cleft palate/lip	135	0.2%
Gastrointestinal		
Biliary atresia	*****	0.0%
Esophageal atresia + tracheoesophageal fistula	21	0.0%
Exstrophy, bladder	*****	0.0%
Intestinal atresia/stenosis	69	0.1%
Pyloric stenosis	15	0.0%
Genitourinary/renal		
Congenital hydronephrosis	324	0.6%
Hypospadias — second or third degree	172	0.3%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	97	0.2%
Renal dysplasia	56	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	65	0.1%
Gastroschisis or omphalocele	100	0.2%
Limb deficiency	19	0.0%
Sacral agenesis	28	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Characteristic	Number	
Number of unique infants	224,512	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	1,041	0.5%
2015	8,216	3.7%
2016	12,104	5.4%
2017	25,176	11.2%
2018	11,182	5.0%
2019	19,879	8.9%
2020	146,914	65.4%
Sex		
Female	*****	0.0%
Male	114,648	51.1%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	108,908	48.5%
American Indian or Alaska Native	3,707	1.7%
Asian	3,247	1.4%
Black or African American	44,581	19.9%
Multi-racial	396	0.2%
Native Hawaiian or Other Pacific Islander	868	0.4%
White	62,805	28.0%
Hispanic origin		
Hispanic or Latino	34,695	15.5%
Not Hispanic or Latino	115,645	51.5%
Unknown	74,172	33.0%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	9.7	111.3
Birth-Enrollment Gap Categories		
≤14 Days	204,715	91.2%
15-30 Days	2,193	1.0%
31-90 Days	5,019	2.2%
>90 Days	12,585	5.6%
Mean Continuous Enrollment (Days)	118.2	44.1
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	224,512	100.0%
184-365 Days	0	0.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	224,512	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	6,898	3.1%
18-39	213,200	95.0%
40-54	4,414	2.0%
Length of Pre-Delivery Coverage		
<391 Days	27,032	12.0%
≥391 Days	197,480	88.0%
Mean Gestational Age at Delivery (Weeks)³	39.5	1.8
Delivery Status		
Pre-term (0-258 days gestation)	18,585	8.3%
Term (259-280 days gestation)	144,199	64.2%
Post-term (281-301 days)	45,352	20.2%
Unknown Term	16,376	7.3%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	2,825	1.3%
Ampicillin	333	0.1%
Cefotaxime	15	0.0%
Corticosteroid administration	1,088	0.5%
Gentamicin	263	0.1%
Opioid administration	2,276	1.0%
Surfactant administration	129	0.1%
Vitamin administration	435	0.2%
Vitamin K administration	239	0.1%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	268	0.1%
Fetal Alcohol Syndrome	215	0.1%
Low Birth Weight	8,964	4.0%
Necrotizing Enterocolitis	308	0.1%
Neonatal Abstinence Syndrome	7,974	3.6%
Neonatal Sepsis	57	0.0%
Retinopathy of Prematurity	613	0.3%
Respiratory Distress Syndrome	7,055	3.1%
Evidence of Medication Dispensings		
Antibiotics	26,634	11.9%
Anticonvulsants	3,628	1.6%
Antidiabetic agents	2,769	1.2%
Antihistamines	4,336	1.9%
Antihypertensives	1,398	0.6%
Asthma medications	3,671	1.6%
Glucocorticoids	7,238	3.2%
Proton pump inhibitors	2,531	1.1%
Evidence of Immunizations		
Hepatitis B	3,540	1.6%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	11,840	5.3%
Anemia	32,310	14.4%
Asthma	11,804	5.3%
Cancer of the Brain & Other Parts of the CNS	12	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	61	0.0%
Cancer, Other	133	0.1%
Diabetes mellitus (DM)	3,403	1.5%
Epilepsy	1,376	0.6%
Gastroesophageal Reflux Disease (GERD)	9,780	4.4%
Hypertension	4,291	1.9%
Influenza	131	0.1%
Intellectual Disabilities and Related Conditions	1,060	0.5%
Irritable bowel syndrome	309	0.1%
Measles	*****	0.0%
Meningitis	238	0.1%
Mumps	*****	0.0%
Otitis Media	451	0.2%
Pertussis	*****	0.0%
Pneumonia	899	0.4%
Rubella	44	0.0%
Sickle Cell Disease	230	0.1%
Sinusitis	535	0.2%
COVID-19	2,731	1.2%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	357	0.2%
Ampicillin	151	0.1%
Cefotaxime	12	0.0%
Corticosteroid administration	17	0.0%
Gentamicin	98	0.0%
Opioid administration	20	0.0%
Surfactant administration	125	0.1%
Vitamin administration	306	0.1%
Vitamin K administration	220	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	256	0.1%
Fetal Alcohol Syndrome	196	0.1%
Low Birth Weight	7,818	3.5%
Necrotizing Enterocolitis	272	0.1%
Neonatal Abstinence Syndrome	7,201	3.2%
Neonatal Sepsis	57	0.0%
Retinopathy of Prematurity	555	0.2%
Respiratory Distress Syndrome	5,879	2.6%
Evidence of Medication Dispensings		
Antibiotics	3,022	1.3%
Anticonvulsants	126	0.1%
Antidiabetic agents	0	0.0%
Antihistamines	21	0.0%
Antihypertensives	16	0.0%
Asthma medications	84	0.0%
Glucocorticoids	845	0.4%
Proton pump inhibitors	187	0.1%
Evidence of Immunizations		
Hepatitis B	2,980	1.3%
COVID -19 Vaccine	0	0.0%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	8,155	3.6%
Anemia	1,183	0.5%
Asthma	39	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	14	0.0%
Cancer, Other	16	0.0%
Diabetes mellitus (DM)	53	0.0%
Epilepsy	139	0.1%
Gastroesophageal Reflux Disease (GERD)	5,454	2.4%
Hypertension	95	0.0%
Influenza	36	0.0%
Intellectual Disabilities and Related Conditions	759	0.3%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	205	0.1%
Mumps	0	0.0%
Otitis Media	140	0.1%
Pertussis	*****	0.0%
Pneumonia	303	0.1%
Rubella	*****	0.0%
Sickle Cell Disease	84	0.0%
Sinusitis	30	0.0%
COVID-19	187	0.1%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	12,472	5.6%
Anticonvulsants	363	0.2%
Antidiabetic agents	*****	0.0%
Antihistamines	1,242	0.6%
Antihypertensives	106	0.0%
Asthma medications	3,535	1.6%
Glucocorticoids	12,908	5.7%
Proton pump inhibitors	1,578	0.7%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Evidence of Immunizations		
Hepatitis A	112	0.0%
Hepatitis B	90,508	40.3%
Diphtheria, tetanus, acellular pertussis	89,036	39.7%
Haemophilus influenza type B	88,083	39.2%
Inactivated Poliovirus	88,656	39.5%
Influenza (Live Attenuated or Inactivated)	2,182	1.0%
Measles, Mumps, Rubella	105	0.0%
Meningococcal (A, C, W, Y)	51	0.0%
Pneumococcal (PCV13 only)	87,064	38.8%
Rotavirus	84,355	37.6%
Varicella	87	0.0%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	11,764	5.2%
Anemia	1,826	0.8%
Asthma	731	0.3%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	13	0.0%
Cancer, Other	20	0.0%
Diabetes mellitus (DM)	21	0.0%
Epilepsy	328	0.1%
Gastroesophageal Reflux Disease (GERD)	14,233	6.3%
Hypertension	163	0.1%
Influenza	658	0.3%
Intellectual Disabilities and Related Conditions	357	0.2%
Irritable bowel syndrome	*****	0.0%
Measles	*****	0.0%
Meningitis	186	0.1%
Mumps	0	0.0%
Otitis Media	5,072	2.3%
Pertussis	38	0.0%
Pneumonia	1,144	0.5%
Rubella	*****	0.0%
Sickle Cell Disease	172	0.1%
Sinusitis	600	0.3%
COVID-19	1,379	0.6%

Table 2h. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	22	0.0%
Holoprosencephaly	258	0.1%
Microcephalus	742	0.3%
Spina bifida	162	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	41	0.0%
Anotia, microtia	75	0.0%
Cataracts and other lens defects	77	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	153	0.1%
Pulmonary venous return, anomalous coronary artery	73	0.0%
Severe cardiac defects	3,130	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	48	0.0%
Cleft palate/lip	456	0.2%
Gastrointestinal		
Biliary atresia	84	0.0%
Esophageal atresia + tracheoesophageal fistula	50	0.0%
Exstrophy, bladder	*****	0.0%
Intestinal atresia/stenosis	350	0.2%
Pyloric stenosis	588	0.3%
Genitourinary/renal		
Congenital hydronephrosis	1,680	0.7%
Hypospadias — second or third degree	933	0.4%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	206	0.1%
Renal dysplasia	194	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	116	0.1%
Gastroschisis or omphalocele	448	0.2%
Limb deficiency	52	0.0%
Sacral agenesis	151	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Characteristic	Number	
Number of unique infants	238,342	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	282	0.1%
2015	4,433	1.9%
2016	11,279	4.7%
2017	29,253	12.3%
2018	15,468	6.5%
2019	20,042	8.4%
2020	157,585	66.1%
Sex		
Female	116,777	49.0%
Male	121,565	51.0%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	108,503	45.5%
American Indian or Alaska Native	4,459	1.9%
Asian	4,206	1.8%
Black or African American	49,184	20.6%
Multi-racial	471	0.2%
Native Hawaiian or Other Pacific Islander	1,017	0.4%
White	70,502	29.6%
Hispanic origin		
Hispanic or Latino	35,787	15.0%
Not Hispanic or Latino	129,882	54.5%
Unknown	72,673	30.5%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	7.2	120.8
Birth-Enrollment Gap Categories		
≤14 Days	214,815	90.1%
15-30 Days	2,880	1.2%
31-90 Days	5,987	2.5%
>90 Days	14,660	6.2%
Mean Continuous Enrollment (Days)	291.5	52.7
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	0	0.0%
184-365 Days	238,342	100.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	238,342	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	7,185	3.0%
18-39	226,349	95.0%
40-54	4,808	2.0%
Length of Pre-Delivery Coverage		
<391 Days	24,201	10.2%
≥391 Days	214,141	89.8%
Mean Gestational Age at Delivery (Weeks)³	39.5	1.7
Delivery Status		
Pre-term (0-258 days gestation)	18,454	7.7%
Term (259-280 days gestation)	152,813	64.1%
Post-term (281-301 days)	49,450	20.7%
Unknown Term	17,625	7.4%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	2,883	1.2%
Ampicillin	323	0.1%
Cefotaxime	21	0.0%
Corticosteroid administration	1,028	0.4%
Gentamicin	244	0.1%
Opioid administration	2,201	0.9%
Surfactant administration	94	0.0%
Vitamin administration	488	0.2%
Vitamin K administration	276	0.1%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	327	0.1%
Fetal Alcohol Syndrome	214	0.1%
Low Birth Weight	8,746	3.7%
Necrotizing Enterocolitis	228	0.1%
Neonatal Abstinence Syndrome	7,429	3.1%
Neonatal Sepsis	76	0.0%
Retinopathy of Prematurity	704	0.3%
Respiratory Distress Syndrome	6,682	2.8%
Evidence of Medication Dispensings		
Antibiotics	28,542	12.0%
Anticonvulsants	3,529	1.5%
Antidiabetic agents	2,894	1.2%
Antihistamines	4,636	1.9%
Antihypertensives	1,372	0.6%
Asthma medications	4,138	1.7%
Glucocorticoids	7,854	3.3%
Proton pump inhibitors	2,747	1.2%
Evidence of Immunizations		
Hepatitis B	3,468	1.5%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	11,769	4.9%
Anemia	33,580	14.1%
Asthma	12,660	5.3%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	75	0.0%
Cancer, Other	146	0.1%
Diabetes mellitus (DM)	3,657	1.5%
Epilepsy	1,423	0.6%
Gastroesophageal Reflux Disease (GERD)	10,404	4.4%
Hypertension	4,155	1.7%
Influenza	629	0.3%
Intellectual Disabilities and Related Conditions	963	0.4%
Irritable bowel syndrome	319	0.1%
Measles	*****	0.0%
Meningitis	211	0.1%
Mumps	*****	0.0%
Otitis Media	514	0.2%
Pertussis	2	0.0%
Pneumonia	977	0.4%
Rubella	51	0.0%
Sickle Cell Disease	262	0.1%
Sinusitis	662	0.3%
COVID-19	1,241	0.5%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	373	0.2%
Ampicillin	143	0.1%
Cefotaxime	13	0.0%
Corticosteroid administration	35	0.0%
Gentamicin	86	0.0%
Opioid administration	23	0.0%
Surfactant administration	88	0.0%
Vitamin administration	332	0.1%
Vitamin K administration	245	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	312	0.1%
Fetal Alcohol Syndrome	182	0.1%
Low Birth Weight	7,556	3.2%
Necrotizing Enterocolitis	203	0.1%
Neonatal Abstinence Syndrome	6,762	2.8%
Neonatal Sepsis	76	0.0%
Retinopathy of Prematurity	620	0.3%
Respiratory Distress Syndrome	5,596	2.3%
Evidence of Medication Dispensings		
Antibiotics	3,505	1.5%
Anticonvulsants	138	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	22	0.0%
Antihypertensives	17	0.0%
Asthma medications	125	0.1%
Glucocorticoids	896	0.4%
Proton pump inhibitors	182	0.1%
Evidence of Immunizations		
Hepatitis B	2,971	1.2%
COVID -19 Vaccine	0	0.0%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	8,261	3.5%
Anemia	1,279	0.5%
Asthma	46	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	*****	0.0%
Cancer, Other	13	0.0%
Diabetes mellitus (DM)	65	0.0%
Epilepsy	131	0.1%
Gastroesophageal Reflux Disease (GERD)	5,776	2.4%
Hypertension	107	0.0%
Influenza	146	0.1%
Intellectual Disabilities and Related Conditions	678	0.3%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	165	0.1%
Mumps	0	0.0%
Otitis Media	134	0.1%
Pertussis	*****	0.0%
Pneumonia	348	0.1%
Rubella	3	0.0%
Sickle Cell Disease	67	0.0%
Sinusitis	25	0.0%
COVID-19	77	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	46,725	19.6%
Anticonvulsants	665	0.3%
Antidiabetic agents	*****	0.0%
Antihistamines	10,879	4.6%
Antihypertensives	264	0.1%
Asthma medications	11,347	4.8%
Glucocorticoids	36,274	15.2%
Proton pump inhibitors	3,280	1.4%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Evidence of Immunizations		
Hepatitis A	236	0.1%
Hepatitis B	147,085	61.7%
Diphtheria, tetanus, acellular pertussis	150,813	63.3%
Haemophilus influenza type B	149,606	62.8%
Inactivated Poliovirus	150,345	63.1%
Influenza (Live Attenuated or Inactivated)	54,365	22.8%
Measles, Mumps, Rubella	222	0.1%
Meningococcal (A, C, W, Y)	143	0.1%
Pneumococcal (PCV13 only)	149,624	62.8%
Rotavirus	135,595	56.9%
Varicella	152	0.1%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	33,167	13.9%
Anemia	3,688	1.5%
Asthma	3,018	1.3%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	22	0.0%
Cancer, Other	59	0.0%
Diabetes mellitus (DM)	59	0.0%
Epilepsy	759	0.3%
Gastroesophageal Reflux Disease (GERD)	22,968	9.6%
Hypertension	317	0.1%
Influenza	1,981	0.8%
Intellectual Disabilities and Related Conditions	605	0.3%
Irritable bowel syndrome	15	0.0%
Measles	*****	0.0%
Meningitis	238	0.1%
Mumps	*****	0.0%
Otitis Media	28,203	11.8%
Pertussis	103	0.0%
Pneumonia	3,126	1.3%
Rubella	*****	0.0%
Sickle Cell Disease	236	0.1%
Sinusitis	2,670	1.1%
COVID-19	2,623	1.1%

Table 2i. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	38	0.0%
Holoprosencephaly	282	0.1%
Microcephalus	882	0.4%
Spina bifida	222	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	58	0.0%
Anotia, microtia	81	0.0%
Cataracts and other lens defects	128	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	172	0.1%
Pulmonary venous return, anomalous coronary artery	80	0.0%
Severe cardiac defects	3,459	1.5%
Orofacial/respiratory		
Choanal atresia/stenosis	61	0.0%
Cleft palate/lip	531	0.2%
Gastrointestinal		
Biliary atresia	91	0.0%
Esophageal atresia + tracheoesophageal fistula	72	0.0%
Exstrophy, bladder	*****	0.0%
Intestinal atresia/stenosis	457	0.2%
Pyloric stenosis	747	0.3%
Genitourinary/renal		
Congenital hydronephrosis	1,888	0.8%
Hypospadias — second or third degree	1,133	0.5%
Posterior urethral valve/and/or prune belly	*****	0.0%
Renal agenesis/hypoplasia	247	0.1%
Renal dysplasia	215	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	133	0.1%
Gastroschisis or omphalocele	548	0.2%
Limb deficiency	67	0.0%
Sacral agenesis	168	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Characteristic	Number	
Number of unique infants	497,024	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	1,661	0.3%
2015	17,606	3.5%
2016	52,851	10.6%
2017	55,492	11.2%
2018	65,680	13.2%
2019	292,953	58.9%
2020	10,781	2.2%
Sex		
Female	244,319	49.2%
Male	252,705	50.8%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	221,128	44.5%
American Indian or Alaska Native	10,993	2.2%
Asian	10,837	2.2%
Black or African American	98,257	19.8%
Multi-racial	847	0.2%
Native Hawaiian or Other Pacific Islander	1,893	0.4%
White	153,069	30.8%
Hispanic origin		
Hispanic or Latino	82,937	16.7%
Not Hispanic or Latino	275,971	55.5%
Unknown	138,116	27.8%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	5.9	111.0
Birth-Enrollment Gap Categories		
≤14 Days	459,033	92.4%
15-30 Days	5,425	1.1%
31-90 Days	10,149	2.0%
>90 Days	22,417	4.5%
Mean Continuous Enrollment (Days)	526.7	101.7
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	0	0.0%
184-365 Days	0	0.0%
366-729 Days	497,024	100.0%
≥730 Days	0	0.0%
Birth type		
Singleton	497,024	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.1	5.8
Age at Delivery		
10-17	14,817	3.0%
18-39	472,918	95.1%
40-54	9,289	1.9%
Length of Pre-Delivery Coverage		
<391 Days	60,175	12.1%
≥391 Days	436,849	87.9%
Mean Gestational Age at Delivery (Weeks)³	39.6	1.6
Delivery Status		
Pre-term (0-258 days gestation)	37,731	7.6%
Term (259-280 days gestation)	310,625	62.5%
Post-term (281-301 days)	110,092	22.2%
Unknown Term	38,576	7.8%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	6,253	1.3%
Ampicillin	756	0.2%
Cefotaxime	84	0.0%
Corticosteroid administration	2,107	0.4%
Gentamicin	545	0.1%
Opioid administration	4,156	0.8%
Surfactant administration	159	0.0%
Vitamin administration	970	0.2%
Vitamin K administration	527	0.1%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	545	0.1%
Fetal Alcohol Syndrome	367	0.1%
Low Birth Weight	17,780	3.6%
Necrotizing Enterocolitis	430	0.1%
Neonatal Abstinence Syndrome	15,535	3.1%
Neonatal Sepsis	350	0.1%
Retinopathy of Prematurity	1,342	0.3%
Respiratory Distress Syndrome	13,162	2.6%
Evidence of Medication Dispensings		
Antibiotics	61,510	12.4%
Anticonvulsants	6,907	1.4%
Antidiabetic agents	5,501	1.1%
Antihistamines	8,979	1.8%
Antihypertensives	2,780	0.6%
Asthma medications	8,076	1.6%
Glucocorticoids	16,655	3.4%
Proton pump inhibitors	4,285	0.9%
Evidence of Immunizations		
Hepatitis B	7,083	1.4%
COVID-19 Vaccine	0	0.0%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	26,282	5.3%
Anemia	65,192	13.1%
Asthma	24,163	4.9%
Cancer of the Brain & Other Parts of the CNS	16	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	115	0.0%
Cancer, Other	270	0.1%
Diabetes mellitus (DM)	7,047	1.4%
Epilepsy	2,758	0.6%
Gastroesophageal Reflux Disease (GERD)	21,411	4.3%
Hypertension	8,511	1.7%
Influenza	1,048	0.2%
Intellectual Disabilities and Related Conditions	1,617	0.3%
Irritable bowel syndrome	570	0.1%
Measles	10	0.0%
Meningitis	665	0.1%
Mumps	*****	0.0%
Otitis Media	1,345	0.3%
Pertussis	32	0.0%
Pneumonia	1,946	0.4%
Rubella	98	0.0%
Sickle Cell Disease	474	0.1%
Sinusitis	1,621	0.3%
COVID-19	248	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	1,084	0.2%
Ampicillin	384	0.1%
Cefotaxime	72	0.0%
Corticosteroid administration	67	0.0%
Gentamicin	241	0.0%
Opioid administration	46	0.0%
Surfactant administration	150	0.0%
Vitamin administration	636	0.1%
Vitamin K administration	466	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	512	0.1%
Fetal Alcohol Syndrome	313	0.1%
Low Birth Weight	15,340	3.1%
Necrotizing Enterocolitis	373	0.1%
Neonatal Abstinence Syndrome	14,122	2.8%
Neonatal Sepsis	347	0.1%
Retinopathy of Prematurity	1,180	0.2%
Respiratory Distress Syndrome	10,852	2.2%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Medication Dispensings		
Antibiotics	7,758	1.6%
Anticonvulsants	266	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	57	0.0%
Antihypertensives	40	0.0%
Asthma medications	459	0.1%
Glucocorticoids	2,103	0.4%
Proton pump inhibitors	174	0.0%
Evidence of Immunizations		
Hepatitis B	6,019	1.2%
COVID -19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	17,850	3.6%
Anemia	2,632	0.5%
Asthma	129	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	16	0.0%
Cancer, Other	26	0.0%
Diabetes mellitus (DM)	112	0.0%
Epilepsy	268	0.1%
Gastroesophageal Reflux Disease (GERD)	12,144	2.4%
Hypertension	141	0.0%
Influenza	341	0.1%
Intellectual Disabilities and Related Conditions	1,114	0.2%
Irritable bowel syndrome	*****	0.0%
Measles	*****	0.0%
Meningitis	540	0.1%
Mumps	0	0.0%
Otitis Media	445	0.1%
Pertussis	25	0.0%
Pneumonia	825	0.2%
Rubella	11	0.0%
Sickle Cell Disease	161	0.0%
Sinusitis	92	0.0%
COVID-19	*****	0.0%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	178,954	36.0%
Anticonvulsants	1,563	0.3%
Antidiabetic agents	*****	0.0%
Antihistamines	43,400	8.7%
Antihypertensives	552	0.1%
Asthma medications	62,956	12.7%
Glucocorticoids	116,065	23.4%
Proton pump inhibitors	5,758	1.2%
Evidence of Immunizations		
Hepatitis A	2,495	0.5%
Hepatitis B	303,194	61.0%
Diphtheria, tetanus, acellular pertussis	309,684	62.3%
Haemophilus influenza type B	308,907	62.2%
Inactivated Poliovirus	308,671	62.1%
Influenza (Live Attenuated or Inactivated)	116,273	23.4%
Measles, Mumps, Rubella	3,097	0.6%
Meningococcal (A, C, W, Y)	357	0.1%
Pneumococcal (PCV13 only)	309,874	62.3%
Rotavirus	277,124	55.8%
Varicella	2,348	0.5%
COVID-19 Vaccine	0	0.0%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	101,027	20.3%
Anemia	11,550	2.3%
Asthma	15,559	3.1%
Cancer of the Brain & Other Parts of the CNS	20	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	75	0.0%
Cancer, Other	146	0.0%
Diabetes mellitus (DM)	145	0.0%
Epilepsy	1,974	0.4%
Gastroesophageal Reflux Disease (GERD)	48,710	9.8%
Hypertension	811	0.2%
Influenza	28,763	5.8%
Intellectual Disabilities and Related Conditions	1,170	0.2%
Irritable bowel syndrome	41	0.0%
Measles	25	0.0%
Meningitis	727	0.1%
Mumps	*****	0.0%
Otitis Media	120,947	24.3%
Pertussis	512	0.1%
Pneumonia	16,588	3.3%
Rubella	32	0.0%
Sickle Cell Disease	479	0.1%
Sinusitis	10,863	2.2%
COVID-19	1,581	0.3%

Table 2j. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	77	0.0%
Holoprosencephaly	399	0.1%
Microcephalus	1,813	0.4%
Spina bifida	455	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	90	0.0%
Anotia, microtia	191	0.0%
Cataracts and other lens defects	297	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	331	0.1%
Pulmonary venous return, anomalous coronary artery	151	0.0%
Severe cardiac defects	6,902	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	120	0.0%
Cleft palate/lip	986	0.2%
Gastrointestinal		
Biliary atresia	138	0.0%
Esophageal atresia + tracheoesophageal fistula	112	0.0%
Exstrophy, bladder	18	0.0%
Intestinal atresia/stenosis	847	0.2%
Pyloric stenosis	1,630	0.3%
Genitourinary/renal		
Congenital hydronephrosis	3,906	0.8%
Hypospadias — second or third degree	2,320	0.5%
Posterior urethral valve/and/or prune belly	17	0.0%
Renal agenesis/hypoplasia	568	0.1%
Renal dysplasia	433	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	220	0.0%
Gastroschisis or omphalocele	1,325	0.3%
Limb deficiency	160	0.0%
Sacral agenesis	431	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Characteristic	Number	
Number of unique infants	760,717	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	6,415	0.8%
2015	40,777	5.4%
2016	108,045	14.2%
2017	265,387	34.9%
2018	293,099	38.5%
2019	40,860	5.4%
2020	6,134	0.8%
Sex		
Female	372,316	48.9%
Male	388,401	51.1%
Unknown or Ambiguous	0	0.0%
Race categories²		
Unknown	336,555	44.2%
American Indian or Alaska Native	20,936	2.8%
Asian	22,645	3.0%
Black or African American	138,913	18.3%
Multi-racial	1,960	0.3%
Native Hawaiian or Other Pacific Islander	2,629	0.3%
White	237,079	31.2%
Hispanic origin		
Hispanic or Latino	148,118	19.5%
Not Hispanic or Latino	424,295	55.8%
Unknown	188,304	24.8%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	41.2	161.7
Birth-Enrollment Gap Categories		
≤14 Days	715,118	94.0%
15-30 Days	10,015	1.3%
31-90 Days	14,787	1.9%
>90 Days	20,797	2.7%
Mean Continuous Enrollment (Days)	1,158.2	324.3
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	0	0.0%
184-365 Days	0	0.0%
366-729 Days	0	0.0%
≥730 Days	760,717	100.0%
Birth type		
Singleton	760,717	100.0%
Multiples	0	0.0%
Unknown	0	0.0%
Mother Characteristics		
Mean Age at Delivery (Years)	27.2	5.8
Age at Delivery		
10-17	22,577	3.0%
18-39	722,394	95.0%
40-54	15,746	2.1%
Length of Pre-Delivery Coverage		
<391 Days	136,370	17.9%
≥391 Days	624,347	82.1%
Mean Gestational Age at Delivery (Weeks)³	39.7	1.6
Delivery Status		
Pre-term (0-258 days gestation)	55,171	7.3%
Term (259-280 days gestation)	459,289	60.4%
Post-term (281-301 days)	181,704	23.9%
Unknown Term	64,553	8.5%
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	10,787	1.4%
Ampicillin	1,113	0.1%
Cefotaxime	236	0.0%
Corticosteroid administration	2,942	0.4%
Gentamicin	691	0.1%
Opioid administration	6,416	0.8%
Surfactant administration	262	0.0%
Vitamin administration	1,586	0.2%
Vitamin K administration	749	0.1%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	786	0.1%
Fetal Alcohol Syndrome	488	0.1%
Low Birth Weight	26,378	3.5%
Necrotizing Enterocolitis	655	0.1%
Neonatal Abstinence Syndrome	23,915	3.1%
Neonatal Sepsis	583	0.1%
Retinopathy of Prematurity	1,890	0.2%
Respiratory Distress Syndrome	19,286	2.5%
Evidence of Medication Dispensings		
Antibiotics	96,620	12.7%
Anticonvulsants	9,643	1.3%
Antidiabetic agents	8,793	1.2%
Antihistamines	13,976	1.8%
Antihypertensives	4,442	0.6%
Asthma medications	12,724	1.7%
Glucocorticoids	26,131	3.4%
Proton pump inhibitors	6,455	0.8%
Evidence of Immunizations		
Hepatitis B	10,847	1.4%
COVID-19 Vaccine	0	0.0%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	40,313	5.3%
Anemia	91,794	12.1%
Asthma	34,493	4.5%
Cancer of the Brain & Other Parts of the CNS	35	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	196	0.0%
Cancer, Other	478	0.1%
Diabetes mellitus (DM)	11,223	1.5%
Epilepsy	3,964	0.5%
Gastroesophageal Reflux Disease (GERD)	31,670	4.2%
Hypertension	12,375	1.6%
Influenza	1,437	0.2%
Intellectual Disabilities and Related Conditions	2,434	0.3%
Irritable bowel syndrome	795	0.1%
Measles	*****	0.0%
Meningitis	1,056	0.1%
Mumps	*****	0.0%
Otitis Media	2,206	0.3%
Pertussis	43	0.0%
Pneumonia	3,037	0.4%
Rubella	117	0.0%
Sickle Cell Disease	699	0.1%
Sinusitis	2,606	0.3%
COVID-19	159	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	2,158	0.3%
Ampicillin	511	0.1%
Cefotaxime	179	0.0%
Corticosteroid administration	123	0.0%
Gentamicin	285	0.0%
Opioid administration	63	0.0%
Surfactant administration	246	0.0%
Vitamin administration	1,015	0.1%
Vitamin K administration	653	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	737	0.1%
Fetal Alcohol Syndrome	398	0.1%
Low Birth Weight	21,606	2.8%
Necrotizing Enterocolitis	567	0.1%
Neonatal Abstinence Syndrome	20,239	2.7%
Neonatal Sepsis	569	0.1%
Retinopathy of Prematurity	1,608	0.2%
Respiratory Distress Syndrome	15,085	2.0%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Medication Dispensings		
Antibiotics	11,750	1.5%
Anticonvulsants	367	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	101	0.0%
Antihypertensives	52	0.0%
Asthma medications	816	0.1%
Glucocorticoids	3,521	0.5%
Proton pump inhibitors	283	0.0%
Evidence of Immunizations		
Hepatitis B	8,829	1.2%
COVID -19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	25,963	3.4%
Anemia	3,514	0.5%
Asthma	209	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	27	0.0%
Cancer, Other	59	0.0%
Diabetes mellitus (DM)	170	0.0%
Epilepsy	397	0.1%
Gastroesophageal Reflux Disease (GERD)	18,024	2.4%
Hypertension	214	0.0%
Influenza	471	0.1%
Intellectual Disabilities and Related Conditions	1,653	0.2%
Irritable bowel syndrome	17	0.0%
Measles	0	0.0%
Meningitis	848	0.1%
Mumps	*****	0.0%
Otitis Media	793	0.1%
Pertussis	25	0.0%
Pneumonia	1,348	0.2%
Rubella	17	0.0%
Sickle Cell Disease	222	0.0%
Sinusitis	164	0.0%
COVID-19	*****	0.0%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	332,392	43.7%
Anticonvulsants	2,575	0.3%
Antidiabetic agents	25	0.0%
Antihistamines	83,586	11.0%
Antihypertensives	863	0.1%
Asthma medications	120,718	15.9%
Glucocorticoids	205,498	27.0%
Proton pump inhibitors	8,356	1.1%
Evidence of Immunizations		
Hepatitis A	8,631	1.1%
Hepatitis B	457,891	60.2%
Diphtheria, tetanus, acellular pertussis	468,976	61.6%
Haemophilus influenza type B	463,483	60.9%
Inactivated Poliovirus	467,263	61.4%
Influenza (Live Attenuated or Inactivated)	176,421	23.2%
Measles, Mumps, Rubella	12,099	1.6%
Meningococcal (A, C, W, Y)	673	0.1%
Pneumococcal (PCV13 only)	462,624	60.8%
Rotavirus	411,596	54.1%
Varicella	8,780	1.2%
COVID-19 Vaccine	0	0.0%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	177,904	23.4%
Anemia	20,498	2.7%
Asthma	32,044	4.2%
Cancer of the Brain & Other Parts of the CNS	34	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	121	0.0%
Cancer, Other	257	0.0%
Diabetes mellitus (DM)	265	0.0%
Epilepsy	3,377	0.4%
Gastroesophageal Reflux Disease (GERD)	76,528	10.1%
Hypertension	1,258	0.2%
Influenza	37,111	4.9%
Intellectual Disabilities and Related Conditions	1,997	0.3%
Irritable bowel syndrome	65	0.0%
Measles	101	0.0%
Meningitis	1,197	0.2%
Mumps	12	0.0%
Otitis Media	231,446	30.4%
Pertussis	994	0.1%
Pneumonia	31,050	4.1%
Rubella	63	0.0%
Sickle Cell Disease	649	0.1%
Sinusitis	21,453	2.8%
COVID-19	119	0.0%

Table 2k. Characteristics of Linked Infants from Singleton Deliveries in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Clinical Characteristics Identified by Searching Infant and Mother Record [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	128	0.0%
Holoprosencephaly	682	0.1%
Microcephalus	2,623	0.3%
Spina bifida	740	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	151	0.0%
Anotia, microtia	315	0.0%
Cataracts and other lens defects	448	0.1%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	542	0.1%
Pulmonary venous return, anomalous coronary artery	196	0.0%
Severe cardiac defects	10,752	1.4%
Orofacial/respiratory		
Choanal atresia/stenosis	193	0.0%
Cleft palate/lip	1,791	0.2%
Gastrointestinal		
Biliary atresia	217	0.0%
Esophageal atresia + tracheoesophageal fistula	174	0.0%
Exstrophy, bladder	38	0.0%
Intestinal atresia/stenosis	1,123	0.1%
Pyloric stenosis	2,540	0.3%
Genitourinary/renal		
Congenital hydronephrosis	6,351	0.8%
Hypospadias — second or third degree	3,729	0.5%
Posterior urethral valve/and/or prune belly	22	0.0%
Renal agenesis/hypoplasia	867	0.1%
Renal dysplasia	628	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	295	0.0%
Gastroschisis or omphalocele	2,416	0.3%
Limb deficiency	257	0.0%
Sacral agenesis	680	0.1%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Gestational age estimated using a claims based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10CM diagnosis codes indicative of weeks of gestation, and ICD-9CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Characteristic	Number	
Number of unique infants	10,647,043	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	2,139,900	20.1%
2015	2,060,922	19.4%
2016	1,614,658	15.2%
2017	1,452,464	13.6%
2018	1,421,373	13.3%
2019	1,171,578	11.0%
2020	786,148	7.4%
Sex		
Female	5,199,447	48.8%
Male	5,447,328	51.2%
Unknown or Ambiguous	268	0.0%
Race categories²		
Unknown	5,307,754	49.9%
American Indian or Alaska Native	112,621	1.1%
Asian	277,996	2.6%
Black or African American	1,717,868	16.1%
Multi-racial	68,604	0.6%
Native Hawaiian or Other Pacific Islander	41,714	0.4%
White	3,120,486	29.3%
Hispanic origin		
Hispanic or Latino	2,531,840	23.8%
Not Hispanic or Latino	5,343,439	50.2%
Unknown	2,771,764	26.0%

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	177.9	271.9
Birth-Enrollment Gap Categories		
≤14 Days	5,373,478	50.5%
15-30 Days	210,396	2.0%
31-90 Days	596,691	5.6%
>90 Days	4,466,478	42.0%
Mean Continuous Enrollment (Days)	813.6	622.7
Continuous Enrollment Categories		
≤30 Days	323,492	3.0%
31-183 Days	1,214,370	11.4%
184-365 Days	2,076,836	19.5%
366-729 Days	2,207,758	20.7%
≥730 Days	4,824,587	45.3%
Birth type		
Singleton	0	0.0%
Multiples	0	0.0%
Unknown	0	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	10,196	0.1%
Ampicillin	3,226	0.0%
Cefotaxime	950	0.0%
Corticosteroid administration	628	0.0%
Gentamicin	1,752	0.0%
Opioid administration	405	0.0%
Surfactant administration	4,113	0.0%
Vitamin administration	29,973	0.3%
Vitamin K administration	9,502	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	15,647	0.1%
Fetal Alcohol Syndrome	3,238	0.0%
Low Birth Weight	317,142	3.0%
Necrotizing Enterocolitis	10,238	0.1%
Neonatal Abstinence Syndrome	127,238	1.2%
Neonatal Sepsis	24,398	0.2%
Retinopathy of Prematurity	32,630	0.3%
Respiratory Distress Syndrome	217,784	2.0%

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Medication Dispensings		
Antibiotics	79,852	0.7%
Anticonvulsants	2,957	0.0%
Antidiabetic agents	15	0.0%
Antihistamines	1,654	0.0%
Antihypertensives	539	0.0%
Asthma medications	7,514	0.1%
Glucocorticoids	23,194	0.2%
Proton pump inhibitors	3,087	0.0%
Evidence of Immunizations		
Hepatitis B	77,802	0.7%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	160,305	1.5%
Anemia	26,382	0.2%
Asthma	1,628	0.0%
Cancer of the Brain & Other Parts of the CNS	55	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	375	0.0%
Cancer, Other	530	0.0%
Diabetes mellitus (DM)	1,895	0.0%
Epilepsy	3,671	0.0%
Gastroesophageal Reflux Disease (GERD)	141,236	1.3%
Hypertension	2,343	0.0%
Influenza	3,179	0.0%
Intellectual Disabilities and Related Conditions	20,353	0.2%
Irritable bowel syndrome	102	0.0%
Measles	*****	0.0%
Meningitis	6,722	0.1%
Mumps	6	0.0%
Otitis Media	5,257	0.0%
Pertussis	259	0.0%
Pneumonia	12,136	0.1%
Rubella	73	0.0%
Sickle Cell Disease	1,750	0.0%
Sinusitis	1,088	0.0%
COVID-19	832	0.0%

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	2,815,289	26.4%
Anticonvulsants	29,300	0.3%
Antidiabetic agents	221	0.0%
Antihistamines	1,020,344	9.6%
Antihypertensives	15,664	0.1%
Asthma medications	1,093,052	10.3%
Glucocorticoids	1,723,068	16.2%
Proton pump inhibitors	104,043	1.0%
Evidence of Immunizations		
Hepatitis A	96,781	0.9%
Hepatitis B	4,415,307	41.5%
Diphtheria, tetanus, acellular pertussis	4,505,299	42.3%
Haemophilus influenza type B	4,408,266	41.4%
Inactivated Poliovirus	4,487,360	42.1%
Influenza (Live Attenuated or Inactivated)	1,722,494	16.2%
Measles, Mumps, Rubella	113,911	1.1%
Meningococcal (A, C, W, Y)	6,622	0.1%
Pneumococcal (PCV13 only)	4,474,300	42.0%
Rotavirus	3,972,341	37.3%
Varicella	101,812	1.0%
COVID-19 Vaccine	0	0.0%

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	1,406,055	13.2%
Anemia	170,472	1.6%
Asthma	269,630	2.5%
Cancer of the Brain & Other Parts of the CNS	435	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	1,528	0.0%
Cancer, Other	2,863	0.0%
Diabetes mellitus (DM)	2,454	0.0%
Epilepsy	33,295	0.3%
Gastroesophageal Reflux Disease (GERD)	670,176	6.3%
Hypertension	15,977	0.2%
Influenza	303,508	2.9%
Intellectual Disabilities and Related Conditions	30,528	0.3%
Irritable bowel syndrome	871	0.0%
Measles	370	0.0%
Meningitis	10,149	0.1%
Mumps	92	0.0%
Otitis Media	1,959,324	18.4%
Pertussis	6,839	0.1%
Pneumonia	234,412	2.2%
Rubella	465	0.0%
Sickle Cell Disease	6,446	0.1%
Sinusitis	195,783	1.8%
COVID-19	15,365	0.1%

Table 3a. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	1,145	0.0%
Holoprosencephaly	8,068	0.1%
Microcephalus	22,184	0.2%
Spina bifida	4,893	0.0%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	1,588	0.0%
Anotia, microtia	3,114	0.0%
Cataracts and other lens defects	3,576	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	5,581	0.1%
Pulmonary venous return, anomalous coronary artery	2,481	0.0%
Severe cardiac defects	102,893	1.0%
Orofacial/respiratory		
Choanal atresia/stenosis	1,888	0.0%
Cleft palate/lip	14,842	0.1%
Gastrointestinal		
Biliary atresia	2,995	0.0%
Esophageal atresia + tracheoesophageal fistula	2,723	0.0%
Exstrophy, bladder	310	0.0%
Intestinal atresia/stenosis	10,323	0.1%
Pyloric stenosis	17,765	0.2%
Genitourinary/renal		
Congenital hydronephrosis	44,222	0.4%
Hypospadias — second or third degree	29,751	0.3%
Posterior urethral valve/and/or prune belly	293	0.0%
Renal agenesis/hypoplasia	5,827	0.1%
Renal dysplasia	5,483	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	3,864	0.0%
Gastroschisis or omphalocele	13,492	0.1%
Limb deficiency	2,274	0.0%
Sacral agenesis	4,539	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Characteristic	Number	
Number of unique infants	323,492	
Infant Characteristics	Number	Percent
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	37,468	11.6%
2015	42,544	13.2%
2016	41,115	12.7%
2017	47,929	14.8%
2018	45,250	14.0%
2019	33,947	10.5%
2020	75,239	23.3%
Sex		
Female	*****	0.0%
Male	166,150	51.4%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	182,756	56.5%
American Indian or Alaska Native	2,392	0.7%
Asian	7,582	2.3%
Black or African American	44,680	13.8%
Multi-racial	1,818	0.6%
Native Hawaiian or Other Pacific Islander	762	0.2%
White	83,502	25.8%
Hispanic origin		
Hispanic or Latino	63,116	19.5%
Not Hispanic or Latino	141,371	43.7%
Unknown	119,005	36.8%

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Infant Characteristics	Number	Percent
Mean Birth-Enrollment Gap (Days)	183.7	283.7
Birth-Enrollment Gap Categories		
≤14 Days	171,227	52.9%
15-30 Days	6,307	1.9%
31-90 Days	15,486	4.8%
>90 Days	130,472	40.3%
Mean Continuous Enrollment (Days)	26.5	36.7
Continuous Enrollment Categories		
≤30 Days	323,492	100.0%
31-183 Days	0	0.0%
184-365 Days	0	0.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	0	0.0%
Multiples	0	0.0%
Unknown	0	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	272	0.1%
Ampicillin	82	0.0%
Cefotaxime	*****	0.0%
Corticosteroid administration	22	0.0%
Gentamicin	55	0.0%
Opioid administration	19	0.0%
Surfactant administration	335	0.1%
Vitamin administration	313	0.1%
Vitamin K administration	194	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	249	0.1%
Fetal Alcohol Syndrome	93	0.0%
Low Birth Weight	13,725	4.2%
Necrotizing Enterocolitis	538	0.2%
Neonatal Abstinence Syndrome	3,601	1.1%
Neonatal Sepsis	407	0.1%
Retinopathy of Prematurity	403	0.1%
Respiratory Distress Syndrome	8,829	2.7%

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Evidence of Medication Dispensings		
Antibiotics	659	0.2%
Anticonvulsants	51	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	16	0.0%
Antihypertensives	*****	0.0%
Asthma medications	49	0.0%
Glucocorticoids	194	0.1%
Proton pump inhibitors	25	0.0%
Evidence of Immunizations		
Hepatitis B	1,547	0.5%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	2,835	0.9%
Anemia	653	0.2%
Asthma	23	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	21	0.0%
Cancer, Other	17	0.0%
Diabetes mellitus (DM)	86	0.0%
Epilepsy	150	0.0%
Gastroesophageal Reflux Disease (GERD)	1,708	0.5%
Hypertension	68	0.0%
Influenza	30	0.0%
Intellectual Disabilities and Related Conditions	1,242	0.4%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	118	0.0%
Mumps	0	0.0%
Otitis Media	47	0.0%
Pertussis	*****	0.0%
Pneumonia	232	0.1%
Rubella	*****	0.0%
Sickle Cell Disease	39	0.0%
Sinusitis	14	0.0%
COVID-19	103	0.0%

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	10,952	3.4%
Anticonvulsants	164	0.1%
Antidiabetic agents	*****	0.0%
Antihistamines	3,217	1.0%
Antihypertensives	103	0.0%
Asthma medications	4,279	1.3%
Glucocorticoids	6,968	2.2%
Proton pump inhibitors	333	0.1%
Evidence of Immunizations		
Hepatitis A	822	0.3%
Hepatitis B	13,984	4.3%
Diphtheria, tetanus, acellular pertussis	14,557	4.5%
Haemophilus influenza type B	13,984	4.3%
Inactivated Poliovirus	14,463	4.5%
Influenza (Live Attenuated or Inactivated)	6,582	2.0%
Measles, Mumps, Rubella	970	0.3%
Meningococcal (A, C, W, Y)	18	0.0%
Pneumococcal (PCV13 only)	14,899	4.6%
Rotavirus	11,263	3.5%
Varicella	859	0.3%
COVID-19 Vaccine	0	0.0%

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	5,336	1.6%
Anemia	812	0.3%
Asthma	1,028	0.3%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	12	0.0%
Cancer, Other	22	0.0%
Diabetes mellitus (DM)	*****	0.0%
Epilepsy	167	0.1%
Gastroesophageal Reflux Disease (GERD)	1,890	0.6%
Hypertension	84	0.0%
Influenza	1,298	0.4%
Intellectual Disabilities and Related Conditions	165	0.1%
Irritable bowel syndrome	*****	0.0%
Measles	0	0.0%
Meningitis	41	0.0%
Mumps	0	0.0%
Otitis Media	7,652	2.4%
Pertussis	17	0.0%
Pneumonia	968	0.3%
Rubella	*****	0.0%
Sickle Cell Disease	44	0.0%
Sinusitis	701	0.2%
COVID-19	76	0.0%

Table 3b. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Less than or Equal to 30 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	88	0.0%
Holoprosencephaly	361	0.1%
Microcephalus	445	0.1%
Spina bifida	142	0.0%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	59	0.0%
Anotia, microtia	58	0.0%
Cataracts and other lens defects	38	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	128	0.0%
Pulmonary venous return, anomalous coronary artery	93	0.0%
Severe cardiac defects	2,852	0.9%
Orofacial/respiratory		
Choanal atresia/stenosis	38	0.0%
Cleft palate/lip	403	0.1%
Gastrointestinal		
Biliary atresia	57	0.0%
Esophageal atresia + tracheoesophageal fistula	145	0.0%
Exstrophy, bladder	11	0.0%
Intestinal atresia/stenosis	360	0.1%
Pyloric stenosis	72	0.0%
Genitourinary/renal		
Congenital hydronephrosis	983	0.3%
Hypospadias — second or third degree	522	0.2%
Posterior urethral valve/and/or prune belly	26	0.0%
Renal agenesis/hypoplasia	338	0.1%
Renal dysplasia	210	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	279	0.1%
Gastroschisis or omphalocele	508	0.2%
Limb deficiency	42	0.0%
Sacral agenesis	107	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Table 3c. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Characteristic	Number	
Number of unique infants	1,214,370	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	175,338	14.4%
2015	178,746	14.7%
2016	165,098	13.6%
2017	102,609	8.4%
2018	115,630	9.5%
2019	132,663	10.9%
2020	344,286	28.4%
Sex		
Female	*****	48.8%
Male	621,728	51.2%
Unknown or Ambiguous	*****	0.0%
Race categories²		
Unknown	628,483	51.8%
American Indian or Alaska Native	11,738	1.0%
Asian	28,391	2.3%
Black or African American	179,362	14.8%
Multi-racial	7,545	0.6%
Native Hawaiian or Other Pacific Islander	4,496	0.4%
White	354,355	29.2%
Hispanic origin		
Hispanic or Latino	238,456	19.6%
Not Hispanic or Latino	586,480	48.3%
Unknown	389,434	32.1%

Table 3c. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	179.6	274.3
Birth-Enrollment Gap Categories		
≤14 Days	627,837	51.7%
15-30 Days	21,329	1.8%
31-90 Days	52,951	4.4%
>90 Days	512,253	42.2%
Mean Continuous Enrollment (Days)	117.5	43.9
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	1,214,370	100.0%
184-365 Days	0	0.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	0	0.0%
Multiples	0	0.0%
Unknown	0	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	1,282	0.1%
Ampicillin	415	0.0%
Cefotaxime	54	0.0%
Corticosteroid administration	98	0.0%
Gentamicin	257	0.0%
Opioid administration	57	0.0%
Surfactant administration	684	0.1%
Vitamin administration	2,533	0.2%
Vitamin K administration	837	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	2,027	0.2%
Fetal Alcohol Syndrome	485	0.0%
Low Birth Weight	40,731	3.4%
Necrotizing Enterocolitis	2,002	0.2%
Neonatal Abstinence Syndrome	16,271	1.3%
Neonatal Sepsis	1,511	0.1%
Retinopathy of Prematurity	4,202	0.3%
Respiratory Distress Syndrome	29,898	2.5%
Evidence of Medication Dispensings		
Antibiotics	7,727	0.6%
Anticonvulsants	417	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	120	0.0%
Antihypertensives	74	0.0%
Asthma medications	411	0.0%
Glucocorticoids	2,189	0.2%

Table 3c. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Evidence of Immunizations		
Hepatitis B	8,676	0.7%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	19,288	1.6%
Anemia	3,369	0.3%
Asthma	109	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	55	0.0%
Cancer, Other	51	0.0%
Diabetes mellitus (DM)	232	0.0%
Epilepsy	563	0.0%
Gastroesophageal Reflux Disease (GERD)	15,909	1.3%
Hypertension	306	0.0%
Influenza	151	0.0%
Intellectual Disabilities and Related Conditions	3,293	0.3%
Irritable bowel syndrome	14	0.0%
Measles	0	0.0%
Meningitis	838	0.1%
Mumps	*****	0.0%
Otitis Media	379	0.0%
Pertussis	19	0.0%
Pneumonia	1,320	0.1%
Rubella	*****	0.0%
Sickle Cell Disease	224	0.0%
Sinusitis	88	0.0%
COVID-19	467	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	91,081	7.5%
Anticonvulsants	2,019	0.2%
Antidiabetic agents	16	0.0%
Antihistamines	21,750	1.8%
Antihypertensives	1,106	0.1%
Asthma medications	33,219	2.7%
Glucocorticoids	64,727	5.3%
Proton pump inhibitors	6,849	0.6%

Table 3c. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Evidence of Immunizations		
Hepatitis A	2,444	0.2%
Hepatitis B	308,744	25.4%
Diphtheria, tetanus, acellular pertussis	314,977	25.9%
Haemophilus influenza type B	308,909	25.4%
Inactivated Poliovirus	313,170	25.8%
Influenza (Live Attenuated or Inactivated)	35,643	2.9%
Measles, Mumps, Rubella	2,784	0.2%
Meningococcal (A, C, W, Y)	222	0.0%
Pneumococcal (PCV13 only)	311,367	25.6%
Rotavirus	284,512	23.4%
Varicella	2,564	0.2%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	54,230	4.5%
Anemia	8,896	0.7%
Asthma	7,188	0.6%
Cancer of the Brain & Other Parts of the CNS	24	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	96	0.0%
Cancer, Other	150	0.0%
Diabetes mellitus (DM)	131	0.0%
Epilepsy	2,083	0.2%
Gastroesophageal Reflux Disease (GERD)	48,795	4.0%
Hypertension	1,205	0.1%
Influenza	7,240	0.6%
Intellectual Disabilities and Related Conditions	2,618	0.2%
Irritable bowel syndrome	53	0.0%
Measles	11	0.0%
Meningitis	884	0.1%
Mumps	*****	0.0%
Otitis Media	54,230	4.5%
Pertussis	213	0.0%
Pneumonia	8,191	0.7%
Rubella	*****	0.0%
Sickle Cell Disease	567	0.0%
Sinusitis	5,294	0.4%
COVID-19	3,326	0.3%

Table 3c. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 31-183 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	122	0.0%
Holoprosencephaly	1,109	0.1%
Microcephalus	2,055	0.2%
Spina bifida	487	0.0%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	175	0.0%
Anotia, microtia	272	0.0%
Cataracts and other lens defects	301	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	672	0.1%
Pulmonary venous return, anomalous coronary artery	390	0.0%
Severe cardiac defects	12,050	1.0%
Orofacial/respiratory		
Choanal atresia/stenosis	189	0.0%
Cleft palate/lip	1,568	0.1%
Gastrointestinal		
Biliary atresia	389	0.0%
Esophageal atresia + tracheoesophageal fistula	376	0.0%
Exstrophy, bladder	24	0.0%
Intestinal atresia/stenosis	1,301	0.1%
Pyloric stenosis	1,782	0.1%
Genitourinary/renal		
Congenital hydronephrosis	4,894	0.4%
Hypospadias — second or third degree	2,648	0.2%
Posterior urethral valve/and/or prune belly	45	0.0%
Renal agenesis/hypoplasia	626	0.1%
Renal dysplasia	622	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	614	0.1%
Gastroschisis or omphalocele	1,268	0.1%
Limb deficiency	227	0.0%
Sacral agenesis	399	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Characteristic	Number	
Number of unique infants	2,076,836	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	360,297	17.3%
2015	319,601	15.4%
2016	202,723	9.8%
2017	283,210	13.6%
2018	306,557	14.8%
2019	240,931	11.6%
2020	363,517	17.5%
Sex		
Female	1,015,079	48.9%
Male	1,061,692	51.1%
Unknown or Ambiguous	65	0.0%
Race categories²		
Unknown	1,103,243	53.1%
American Indian or Alaska Native	14,877	0.7%
Asian	42,931	2.1%
Black or African American	356,862	17.2%
Multi-racial	9,930	0.5%
Native Hawaiian or Other Pacific Islander	5,721	0.3%
White	543,272	26.2%
Hispanic origin		
Hispanic or Latino	359,434	17.3%
Not Hispanic or Latino	974,080	46.9%
Unknown	743,322	35.8%

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	246.8	295.6
Birth-Enrollment Gap Categories		
≤14 Days	718,103	34.6%
15-30 Days	51,419	2.5%
31-90 Days	161,056	7.8%
>90 Days	1,146,258	55.2%
Mean Continuous Enrollment (Days)	317.7	54.7
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	0	0.0%
184-365 Days	2,076,836	100.0%
366-729 Days	0	0.0%
≥730 Days	0	0.0%
Birth type		
Singleton	0	0.0%
Multiples	0	0.0%
Unknown	0	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	1,261	0.1%
Ampicillin	333	0.0%
Cefotaxime	48	0.0%
Corticosteroid administration	65	0.0%
Gentamicin	219	0.0%
Opioid administration	41	0.0%
Surfactant administration	639	0.0%
Vitamin administration	2,782	0.1%
Vitamin K administration	953	0.0%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	2,598	0.1%
Fetal Alcohol Syndrome	499	0.0%
Low Birth Weight	44,156	2.1%
Necrotizing Enterocolitis	1,426	0.1%
Neonatal Abstinence Syndrome	17,780	0.9%
Neonatal Sepsis	1,700	0.1%
Retinopathy of Prematurity	5,173	0.2%
Respiratory Distress Syndrome	31,149	1.5%

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Evidence of Medication Dispensings		
Antibiotics	10,538	0.5%
Anticonvulsants	448	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	168	0.0%
Antihypertensives	90	0.0%
Asthma medications	756	0.0%
Glucocorticoids	2,916	0.1%
Proton pump inhibitors	561	0.0%
Evidence of Immunizations		
Hepatitis B	10,694	0.5%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	22,795	1.1%
Anemia	3,952	0.2%
Asthma	165	0.0%
Cancer of the Brain & Other Parts of the CNS	*****	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	55	0.0%
Cancer, Other	86	0.0%
Diabetes mellitus (DM)	265	0.0%
Epilepsy	511	0.0%
Gastroesophageal Reflux Disease (GERD)	20,120	1.0%
Hypertension	314	0.0%
Influenza	478	0.0%
Intellectual Disabilities and Related Conditions	2,817	0.1%
Irritable bowel syndrome	14	0.0%
Measles	0	0.0%
Meningitis	775	0.0%
Mumps	0	0.0%
Otitis Media	602	0.0%
Pertussis	25	0.0%
Pneumonia	1,510	0.1%
Rubella	13	0.0%
Sickle Cell Disease	273	0.0%
Sinusitis	117	0.0%
COVID-19	255	0.0%

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	393,117	18.9%
Anticonvulsants	4,979	0.2%
Antidiabetic agents	24	0.0%
Antihistamines	129,547	6.2%
Antihypertensives	2,859	0.1%
Asthma medications	138,636	6.7%
Glucocorticoids	255,911	12.3%
Proton pump inhibitors	20,254	1.0%
Evidence of Immunizations		
Hepatitis A	8,112	0.4%
Hepatitis B	760,733	36.6%
Diphtheria, tetanus, acellular pertussis	781,848	37.6%
Haemophilus influenza type B	754,541	36.3%
Inactivated Poliovirus	778,737	37.5%
Influenza (Live Attenuated or Inactivated)	293,556	14.1%
Measles, Mumps, Rubella	9,576	0.5%
Meningococcal (A, C, W, Y)	909	0.0%
Pneumococcal (PCV13 only)	780,112	37.6%
Rotavirus	667,801	32.2%
Varicella	8,234	0.4%
COVID-19 Vaccine	0	0.0%

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	214,203	10.3%
Anemia	25,049	1.2%
Asthma	32,845	1.6%
Cancer of the Brain & Other Parts of the CNS	99	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	239	0.0%
Cancer, Other	481	0.0%
Diabetes mellitus (DM)	321	0.0%
Epilepsy	5,569	0.3%
Gastroesophageal Reflux Disease (GERD)	115,736	5.6%
Hypertension	2,840	0.1%
Influenza	32,271	1.6%
Intellectual Disabilities and Related Conditions	5,313	0.3%
Irritable bowel syndrome	162	0.0%
Measles	38	0.0%
Meningitis	1,325	0.1%
Mumps	*****	0.0%
Otitis Media	264,067	12.7%
Pertussis	709	0.0%
Pneumonia	27,309	1.3%
Rubella	52	0.0%
Sickle Cell Disease	1,253	0.1%
Sinusitis	28,620	1.4%
COVID-19	8,083	0.4%

Table 3d. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 184-365 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	184	0.0%
Holoprosencephaly	1,358	0.1%
Microcephalus	3,537	0.2%
Spina bifida	704	0.0%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	256	0.0%
Anotia, microtia	457	0.0%
Cataracts and other lens defects	581	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	874	0.0%
Pulmonary venous return, anomalous coronary artery	429	0.0%
Severe cardiac defects	16,191	0.8%
Orofacial/respiratory		
Choanal atresia/stenosis	288	0.0%
Cleft palate/lip	2,362	0.1%
Gastrointestinal		
Biliary atresia	511	0.0%
Esophageal atresia + tracheoesophageal fistula	429	0.0%
Exstrophy, bladder	69	0.0%
Intestinal atresia/stenosis	1,719	0.1%
Pyloric stenosis	2,511	0.1%
Genitourinary/renal		
Congenital hydronephrosis	6,792	0.3%
Hypospadias — second or third degree	4,965	0.2%
Posterior urethral valve/and/or prune belly	41	0.0%
Renal agenesis/hypoplasia	896	0.0%
Renal dysplasia	836	0.0%
Musculoskeletal malformations		
Diaphragmatic hernia	616	0.0%
Gastroschisis or omphalocele	1,761	0.1%
Limb deficiency	314	0.0%
Sacral agenesis	659	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Characteristic	Number	
Number of unique infants	2,207,758	
Infant Characteristics	Number	Percent¹
Birth Year		
2000	0	0.0%
2001	0	0.0%
2002	0	0.0%
2003	0	0.0%
2004	0	0.0%
2005	0	0.0%
2006	0	0.0%
2007	0	0.0%
2008	0	0.0%
2009	0	0.0%
2010	0	0.0%
2011	0	0.0%
2012	0	0.0%
2013	0	0.0%
2014	268,874	12.2%
2015	361,635	16.4%
2016	301,782	13.7%
2017	287,207	13.0%
2018	276,935	12.5%
2019	708,672	32.1%
2020	2,653	0.1%
Sex		
Female	1,078,536	48.9%
Male	1,129,151	51.1%
Unknown or Ambiguous	71	0.0%
Race categories²		
Unknown	1,121,132	50.8%
American Indian or Alaska Native	25,338	1.1%
Asian	56,538	2.6%
Black or African American	319,091	14.5%
Multi-racial	13,292	0.6%
Native Hawaiian or Other Pacific Islander	9,848	0.4%
White	662,519	30.0%
Hispanic origin		
Hispanic or Latino	534,563	24.2%
Not Hispanic or Latino	1,087,275	49.2%
Unknown	585,920	26.5%

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Infant Characteristics	Number	Percent ¹
Mean Birth-Enrollment Gap (Days)	109.2	246.7
Birth-Enrollment Gap Categories		
≤14 Days	1,521,579	68.9%
15-30 Days	34,148	1.5%
31-90 Days	87,005	3.9%
>90 Days	565,026	25.6%
Mean Continuous Enrollment (Days)	513.7	107.1
Continuous Enrollment Categories		
≤30 Days	0	0.0%
31-183 Days	0	0.0%
184-365 Days	0	0.0%
366-729 Days	2,207,758	100.0%
≥730 Days	0	0.0%
Birth type		
Singleton	0	0.0%
Multiples	0	0.0%
Unknown	0	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	2,807	0.1%
Ampicillin	889	0.0%
Cefotaxime	205	0.0%
Corticosteroid administration	170	0.0%
Gentamicin	487	0.0%
Opioid administration	90	0.0%
Surfactant administration	845	0.0%
Vitamin administration	6,877	0.3%
Vitamin K administration	2,233	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	3,830	0.2%
Fetal Alcohol Syndrome	857	0.0%
Low Birth Weight	83,467	3.8%
Necrotizing Enterocolitis	2,307	0.1%
Neonatal Abstinence Syndrome	31,703	1.4%
Neonatal Sepsis	6,782	0.3%
Retinopathy of Prematurity	8,745	0.4%
Respiratory Distress Syndrome	58,176	2.6%

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Medication Dispensings		
Antibiotics	22,446	1.0%
Anticonvulsants	742	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	430	0.0%
Antihypertensives	130	0.0%
Asthma medications	2,105	0.1%
Glucocorticoids	6,362	0.3%
Proton pump inhibitors	769	0.0%
Evidence of Immunizations		
Hepatitis B	22,747	1.0%
COVID-19 Vaccine	0	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	47,336	2.1%
Anemia	7,183	0.3%
Asthma	432	0.0%
Cancer of the Brain & Other Parts of the CNS	11	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	85	0.0%
Cancer, Other	123	0.0%
Diabetes mellitus (DM)	502	0.0%
Epilepsy	915	0.0%
Gastroesophageal Reflux Disease (GERD)	39,024	1.8%
Hypertension	571	0.0%
Influenza	960	0.0%
Intellectual Disabilities and Related Conditions	4,725	0.2%
Irritable bowel syndrome	32	0.0%
Measles	*****	0.0%
Meningitis	1,937	0.1%
Mumps	*****	0.0%
Otitis Media	1,441	0.1%
Pertussis	77	0.0%
Pneumonia	3,157	0.1%
Rubella	18	0.0%
Sickle Cell Disease	463	0.0%
Sinusitis	277	0.0%
COVID-19	*****	0.0%

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	695,144	31.5%
Anticonvulsants	6,638	0.3%
Antidiabetic agents	56	0.0%
Antihistamines	255,924	11.6%
Antihypertensives	3,474	0.2%
Asthma medications	272,357	12.3%
Glucocorticoids	430,019	19.5%
Proton pump inhibitors	26,068	1.2%
Evidence of Immunizations		
Hepatitis A	22,093	1.0%
Hepatitis B	1,139,933	51.6%
Diphtheria, tetanus, acellular pertussis	1,161,856	52.6%
Haemophilus influenza type B	1,144,888	51.9%
Inactivated Poliovirus	1,158,043	52.5%
Influenza (Live Attenuated or Inactivated)	462,616	21.0%
Measles, Mumps, Rubella	26,135	1.2%
Meningococcal (A, C, W, Y)	1,588	0.1%
Pneumococcal (PCV13 only)	1,156,545	52.4%
Rotavirus	1,047,287	47.4%
Varicella	22,750	1.0%
COVID-19 Vaccine	0	0.0%

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	370,394	16.8%
Anemia	39,894	1.8%
Asthma	62,215	2.8%
Cancer of the Brain & Other Parts of the CNS	96	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	344	0.0%
Cancer, Other	585	0.0%
Diabetes mellitus (DM)	554	0.0%
Epilepsy	7,750	0.4%
Gastroesophageal Reflux Disease (GERD)	173,262	7.8%
Hypertension	3,813	0.2%
Influenza	102,610	4.6%
Intellectual Disabilities and Related Conditions	6,362	0.3%
Irritable bowel syndrome	213	0.0%
Measles	89	0.0%
Meningitis	2,708	0.1%
Mumps	22	0.0%
Otitis Media	483,293	21.9%
Pertussis	1,788	0.1%
Pneumonia	57,288	2.6%
Rubella	107	0.0%
Sickle Cell Disease	1,459	0.1%
Sinusitis	46,047	2.1%
COVID-19	3,862	0.2%

Table 3e. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is 366-729 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	239	0.0%
Holoprosencephaly	1,696	0.1%
Microcephalus	5,639	0.3%
Spina bifida	1,032	0.0%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	322	0.0%
Anotia, microtia	686	0.0%
Cataracts and other lens defects	755	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	1,322	0.1%
Pulmonary venous return, anomalous coronary artery	509	0.0%
Severe cardiac defects	24,678	1.1%
Orofacial/respiratory		
Choanal atresia/stenosis	430	0.0%
Cleft palate/lip	3,191	0.1%
Gastrointestinal		
Biliary atresia	699	0.0%
Esophageal atresia + tracheoesophageal fistula	597	0.0%
Exstrophy, bladder	67	0.0%
Intestinal atresia/stenosis	2,436	0.1%
Pyloric stenosis	4,955	0.2%
Genitourinary/renal		
Congenital hydronephrosis	11,807	0.5%
Hypospadias — second or third degree	7,719	0.3%
Posterior urethral valve/and/or prune belly	61	0.0%
Renal agenesis/hypoplasia	1,347	0.1%
Renal dysplasia	1,271	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	766	0.0%
Gastroschisis or omphalocele	3,628	0.2%
Limb deficiency	557	0.0%
Sacral agenesis	1,089	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Characteristic	Number	
Number of unique infants	4,824,587	
Infant Characteristics	Number	Percent ¹
Birth Year		
2000	-	0.0%
2001	-	0.0%
2002	-	0.0%
2003	-	0.0%
2004	-	0.0%
2005	-	0.0%
2006	-	0.0%
2007	-	0.0%
2008	-	0.0%
2009	-	0.0%
2010	-	0.0%
2011	-	0.0%
2012	-	0.0%
2013	-	0.0%
2014	1,297,923	26.9%
2015	1,158,396	24.0%
2016	903,940	18.7%
2017	731,509	15.2%
2018	677,001	14.0%
2019	55,365	1.1%
2020	453	0.0%
Sex		
Female	2,355,914	48.8%
Male	2,468,607	51.2%
Unknown or Ambiguous	66	0.0%
Race categories²		
Unknown	2,272,140	47.1%
American Indian or Alaska Native	58,276	1.2%
Asian	142,554	3.0%
Black or African American	817,873	17.0%
Multi-racial	36,019	0.7%
Native Hawaiian or Other Pacific Islander	20,887	0.4%
White	1,476,838	30.6%
Hispanic origin		
Hispanic or Latino	1,336,271	27.7%
Not Hispanic or Latino	2,554,233	52.9%
Unknown	934,083	19.4%

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Infant Characteristics	Number	Percent¹
Mean Birth-Enrollment Gap (Days)	178.8	262.9
Birth-Enrollment Gap Categories		
≤14 Days	2,334,732	48.4%
15-30 Days	97,193	2.0%
31-90 Days	280,193	5.8%
>90 Days	2,112,469	43.8%
Mean Continuous Enrollment (Days)	1,392.3	450.8
Continuous Enrollment Categories		
≤30 Days	-	0.0%
31-183 Days	-	0.0%
184-365 Days	-	0.0%
366-729 Days	-	0.0%
≥730 Days	4,824,587	100.0%
Birth type		
Singleton	-	0.0%
Multiples	-	0.0%
Unknown	-	0.0%
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]		
Evidence of Neonatal Medication Administrations		
Antibiotic administration	4,574	0.1%
Ampicillin	1,507	0.0%
Cefotaxime	639	0.0%
Corticosteroid administration	273	0.0%
Gentamicin	734	0.0%
Opioid administration	198	0.0%
Surfactant administration	1,610	0.0%
Vitamin administration	17,468	0.4%
Vitamin K administration	5,285	0.1%
Evidence of Neonatal Outcomes		
Bronchopulmonary Dysplasia	6,943	0.1%
Fetal Alcohol Syndrome	1,304	0.0%
Low Birth Weight	135,063	2.8%
Necrotizing Enterocolitis	3,965	0.1%
Neonatal Abstinence Syndrome	57,883	1.2%
Neonatal Sepsis	13,998	0.3%
Retinopathy of Prematurity	14,107	0.3%
Respiratory Distress Syndrome	89,732	1.9%

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Medication Dispensings		
Antibiotics	38,482	0.8%
Anticonvulsants	1,299	0.0%
Antidiabetic agents	*****	0.0%
Antihistamines	920	0.0%
Antihypertensives	239	0.0%
Asthma medications	4,193	0.1%
Glucocorticoids	11,533	0.2%
Proton pump inhibitors	1,263	0.0%
Evidence of Immunizations		
Hepatitis B	34,138	0.7%
COVID-19 Vaccine	-	0.0%
Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	68,051	1.4%
Anemia	11,225	0.2%
Asthma	899	0.0%
Cancer of the Brain & Other Parts of the CNS	22	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	159	0.0%
Cancer, Other	253	0.0%
Diabetes mellitus (DM)	810	0.0%
Epilepsy	1,532	0.0%
Gastroesophageal Reflux Disease (GERD)	64,475	1.3%
Hypertension	1,084	0.0%
Influenza	1,560	0.0%
Intellectual Disabilities and Related Conditions	8,276	0.2%
Irritable bowel syndrome	39	0.0%
Measles	*****	0.0%
Meningitis	3,054	0.1%
Mumps	*****	0.0%
Otitis Media	2,788	0.1%
Pertussis	137	0.0%
Pneumonia	5,917	0.1%
Rubella	28	0.0%
Sickle Cell Disease	751	0.0%
Sinusitis	592	0.0%
COVID-19	-	0.0%

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]		
Evidence of Medication Dispensings		
Antibiotics	1,624,995	33.7%
Anticonvulsants	15,500	0.3%
Antidiabetic agents	124	0.0%
Antihistamines	609,906	12.6%
Antihypertensives	8,122	0.2%
Asthma medications	644,561	13.4%
Glucocorticoids	965,443	20.0%
Proton pump inhibitors	50,539	1.0%
Evidence of Immunizations		
Hepatitis A	63,310	1.3%
Hepatitis B	2,191,913	45.4%
Diphtheria, tetanus, acellular pertussis	2,232,061	46.3%
Haemophilus influenza type B	2,185,944	45.3%
Inactivated Poliovirus	2,222,947	46.1%
Influenza (Live Attenuated or Inactivated)	924,097	19.2%
Measles, Mumps, Rubella	74,446	1.5%
Meningococcal (A, C, W, Y)	3,885	0.1%
Pneumococcal (PCV13 only)	2,211,377	45.8%
Rotavirus	1,961,478	40.7%
Varicella	67,405	1.4%
COVID-19 Vaccine	-	0.0%

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Evidence of Comorbidities		
Allergies, Hypersensitivities, and Allergic Reactions	761,892	15.8%
Anemia	95,821	2.0%
Asthma	166,354	3.4%
Cancer of the Brain & Other Parts of the CNS	212	0.0%
Cancer of the Lymphoid, Hematopoietic and Related Tissue	837	0.0%
Cancer, Other	1,625	0.0%
Diabetes mellitus (DM)	1,441	0.0%
Epilepsy	17,726	0.4%
Gastroesophageal Reflux Disease (GERD)	330,493	6.9%
Hypertension	8,035	0.2%
Influenza	160,089	3.3%
Intellectual Disabilities and Related Conditions	16,070	0.3%
Irritable bowel syndrome	440	0.0%
Measles	232	0.0%
Meningitis	5,191	0.1%
Mumps	59	0.0%
Otitis Media	1,150,082	23.8%
Pertussis	4,112	0.1%
Pneumonia	140,656	2.9%
Rubella	294	0.0%
Sickle Cell Disease	3,123	0.1%
Sinusitis	115,121	2.4%
COVID-19	18	0.0%

Table 3f. Characteristics of All Unlinked Infants in the Sentinel Mother-Infant Linkage Table Between January 1, 2014 and December 31, 2020, for Infants Whose First Continuous Enrollment Episode is Greater than or Equal to 730 Days

Clinical Characteristics Identified by Searching Infant Record Only [0, 365 Days]		
Evidence of Major Congenital Malformations		
Central Nervous System		
Encephalocele, cranial meningocele, encephalomyelocele	512	0.0%
Holoprosencephaly	3,544	0.1%
Microcephalus	10,508	0.2%
Spina bifida	2,528	0.1%
Eye, Ear, Nose, Throat (EENT)		
Anophthalmia, microphthalmia	776	0.0%
Anotia, microtia	1,641	0.0%
Cataracts and other lens defects	1,901	0.0%
Cardiac		
Other cardiac defects: septal defects, heterotaxy, papvr	2,585	0.1%
Pulmonary venous return, anomalous coronary artery	1,060	0.0%
Severe cardiac defects	47,122	1.0%
Orofacial/respiratory		
Choanal atresia/stenosis	943	0.0%
Cleft palate/lip	7,318	0.2%
Gastrointestinal		
Biliary atresia	1,339	0.0%
Esophageal atresia + tracheoesophageal fistula	1,176	0.0%
Exstrophy, bladder	139	0.0%
Intestinal atresia/stenosis	4,507	0.1%
Pyloric stenosis	8,445	0.2%
Genitourinary/renal		
Congenital hydronephrosis	19,746	0.4%
Hypospadias — second or third degree	13,897	0.3%
Posterior urethral valve/and/or prune belly	120	0.0%
Renal agenesis/hypoplasia	2,620	0.1%
Renal dysplasia	2,544	0.1%
Musculoskeletal malformations		
Diaphragmatic hernia	1,589	0.0%
Gastroschisis or omphalocele	6,327	0.1%
Limb deficiency	1,134	0.0%
Sacral agenesis	2,285	0.0%

¹Value represents standard deviation where no % follows the value

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

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

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (November 7, 2023)

Masked DP ID	DP Start Date	DP End Date
DP01	1/1/2014	12/31/2020

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
Pregnancy Episodes			
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, High, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low, 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
59614	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
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
641.01	Placenta previa without hemorrhage, with delivery	Diagnosis	ICD-9-CM
641.11	Hemorrhage from placenta previa, with delivery	Diagnosis	ICD-9-CM
641.21	Premature separation of placenta, with delivery	Diagnosis	ICD-9-CM
641.31	Antepartum hemorrhage associated with coagulation defects, with delivery	Diagnosis	ICD-9-CM
641.81	Other antepartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
641.91	Unspecified antepartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
642.01	Benign essential hypertension with delivery	Diagnosis	ICD-9-CM
642.02	Benign essential hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.11	Hypertension secondary to renal disease, with delivery	Diagnosis	ICD-9-CM
642.12	Hypertension secondary to renal disease, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.21	Other pre-existing hypertension, with delivery	Diagnosis	ICD-9-CM
642.22	Other pre-existing hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.31	Transient hypertension of pregnancy, with delivery	Diagnosis	ICD-9-CM
642.32	Transient hypertension of pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.41	Mild or unspecified pre-eclampsia, with delivery	Diagnosis	ICD-9-CM
642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.51	Severe pre-eclampsia, with delivery	Diagnosis	ICD-9-CM
642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.61	Eclampsia, with delivery	Diagnosis	ICD-9-CM
642.62	Eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	Diagnosis	ICD-9-CM
642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.91	Unspecified hypertension, with delivery	Diagnosis	ICD-9-CM
642.92	Unspecified hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
643.01	Mild hyperemesis gravidarum, delivered	Diagnosis	ICD-9-CM
643.11	Hyperemesis gravidarum with metabolic disturbance, delivered	Diagnosis	ICD-9-CM
643.21	Late vomiting of pregnancy, delivered	Diagnosis	ICD-9-CM
643.81	Other vomiting complicating pregnancy, delivered	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
643.91	Unspecified vomiting of pregnancy, delivered	Diagnosis	ICD-9-CM
644.21	Early onset of delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
645.01	Prolonged pregnancy, with delivery	Diagnosis	ICD-9-CM
645.11	Post term pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
645.21	Prolonged pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
645.22	Delivery	Diagnosis	ICD-9-CM
646.01	Papyraceous fetus, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.11	Edema or excessive weight gain in pregnancy, with delivery, with or without mention of antepartum complication	Diagnosis	ICD-9-CM
646.12	Edema or excessive weight gain in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.21	Unspecified renal disease in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.22	Unspecified renal disease in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.31	Pregnancy complication, recurrent pregnancy loss, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.41	Peripheral neuritis in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.42	Peripheral neuritis in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.51	Asymptomatic bacteriuria in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.52	Asymptomatic bacteriuria in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.61	Infections of genitourinary tract in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.62	Infections of genitourinary tract in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.71	Liver and biliary tract disorders in pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.81	Other specified complication of pregnancy, with delivery	Diagnosis	ICD-9-CM
646.82	Other specified complications of pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.91	Unspecified complication of pregnancy, with delivery	Diagnosis	ICD-9-CM
647.01	Maternal syphilis, complicating pregnancy, with delivery	Diagnosis	ICD-9-CM
647.02	Maternal syphilis, complicating pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.11	Maternal gonorrhea with delivery	Diagnosis	ICD-9-CM
647.12	Maternal gonorrhea, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.21	Other maternal venereal diseases with delivery	Diagnosis	ICD-9-CM
647.22	Other maternal venereal diseases with delivery, with current postpartum complication	Diagnosis	ICD-9-CM

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
647.31	Maternal tuberculosis with delivery	Diagnosis	ICD-9-CM
647.32	Maternal tuberculosis with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.41	Maternal malaria with delivery	Diagnosis	ICD-9-CM
647.42	Maternal malaria with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.51	Maternal rubella with delivery	Diagnosis	ICD-9-CM
647.52	Maternal rubella with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.61	Other maternal viral disease with delivery	Diagnosis	ICD-9-CM
647.62	Other maternal viral disease with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.81	Other specified maternal infectious and parasitic disease with delivery	Diagnosis	ICD-9-CM
647.82	Other specified maternal infectious and parasitic disease with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.91	Unspecified maternal infection or infestation with delivery	Diagnosis	ICD-9-CM
647.92	Unspecified maternal infection or infestation with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.01	Maternal diabetes mellitus with delivery	Diagnosis	ICD-9-CM
648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.11	Maternal thyroid dysfunction with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
648.12	Maternal thyroid dysfunction with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.21	Maternal anemia, with delivery	Diagnosis	ICD-9-CM
648.22	Maternal anemia with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.31	Maternal drug dependence, with delivery	Diagnosis	ICD-9-CM
648.32	Maternal drug dependence, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.41	Maternal mental disorders, with delivery	Diagnosis	ICD-9-CM
648.42	Maternal mental disorders, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.51	Maternal congenital cardiovascular disorders, with delivery	Diagnosis	ICD-9-CM
648.52	Maternal congenital cardiovascular disorders, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.61	Other maternal cardiovascular diseases, with delivery	Diagnosis	ICD-9-CM
648.62	Other maternal cardiovascular diseases, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.71	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery	Diagnosis	ICD-9-CM
648.72	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.81	Abnormal maternal glucose tolerance, with delivery	Diagnosis	ICD-9-CM
648.82	Abnormal maternal glucose tolerance, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
648.91	Other current maternal conditions classifiable elsewhere, with delivery	Diagnosis	ICD-9-CM
648.92	Other current maternal conditions classifiable elsewhere, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.31	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.32	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.61	Uterine size date discrepancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.62	Uterine size date discrepancy, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.71	Cervical shortening, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.81	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.82	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
650	Normal delivery	Diagnosis	ICD-9-CM
651.01	Twin pregnancy, delivered	Diagnosis	ICD-9-CM
651.11	Triplet pregnancy, delivered	Diagnosis	ICD-9-CM
651.21	Quadruplet pregnancy, delivered	Diagnosis	ICD-9-CM
651.31	Twin pregnancy with fetal loss and retention of one fetus, delivered	Diagnosis	ICD-9-CM
651.41	Triplet pregnancy with fetal loss and retention of one or more, delivered	Diagnosis	ICD-9-CM

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
651.51	Quadruplet pregnancy with fetal loss and retention of one or more, delivered	Diagnosis	ICD-9-CM
651.61	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), delivered	Diagnosis	ICD-9-CM
651.71	Multiple gestation following (elective) fetal reduction, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
651.81	Other specified multiple gestation, delivered	Diagnosis	ICD-9-CM
651.91	Unspecified multiple gestation, delivered	Diagnosis	ICD-9-CM
652.01	Unstable lie of fetus, delivered	Diagnosis	ICD-9-CM
652.11	Breech or other malpresentation successfully converted to cephalic presentation, delivered	Diagnosis	ICD-9-CM
652.21	Breech presentation without mention of version, delivered	Diagnosis	ICD-9-CM
652.31	Transverse or oblique fetal presentation, delivered	Diagnosis	ICD-9-CM
652.41	Fetal face or brow presentation, delivered	Diagnosis	ICD-9-CM
652.51	High fetal head at term, delivered	Diagnosis	ICD-9-CM
652.61	Multiple gestation with malpresentation of one fetus or more, delivered	Diagnosis	ICD-9-CM
652.71	Prolapsed arm of fetus, delivered	Diagnosis	ICD-9-CM
652.81	Other specified malposition or malpresentation of fetus, delivered	Diagnosis	ICD-9-CM
652.91	Unspecified malposition or malpresentation of fetus, delivered	Diagnosis	ICD-9-CM
653.01	Major abnormality of bony pelvis, not further specified, delivered	Diagnosis	ICD-9-CM
653.11	Generally contracted pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.21	Inlet contraction of pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.31	Outlet contraction of pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.41	Fetopelvic disproportion, delivered	Diagnosis	ICD-9-CM
653.51	Unusually large fetus causing disproportion, delivered	Diagnosis	ICD-9-CM
653.61	Hydrocephalic fetus causing disproportion, delivered	Diagnosis	ICD-9-CM
653.71	Other fetal abnormality causing disproportion, delivered	Diagnosis	ICD-9-CM
653.81	Fetal disproportion of other origin, delivered	Diagnosis	ICD-9-CM
653.91	Unspecified fetal disproportion, delivered	Diagnosis	ICD-9-CM
654.01	Congenital abnormalities of pregnant uterus, delivered	Diagnosis	ICD-9-CM
654.02	Congenital abnormalities of pregnant uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.11	Tumors of body of uterus, delivered	Diagnosis	ICD-9-CM
654.12	Tumors of body of uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.21	Previous cesarean delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
654.31	Retroverted and incarcerated gravid uterus, delivered	Diagnosis	ICD-9-CM
654.32	Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.41	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered	Diagnosis	ICD-9-CM
654.42	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
654.51	Cervical incompetence, delivered	Diagnosis	ICD-9-CM
654.52	Cervical incompetence, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.61	Other congenital or acquired abnormality of cervix, with delivery	Diagnosis	ICD-9-CM
654.62	Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.71	Congenital or acquired abnormality of vagina, with delivery	Diagnosis	ICD-9-CM
654.72	Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.81	Congenital or acquired abnormality of vulva, with delivery	Diagnosis	ICD-9-CM
654.82	Congenital or acquired abnormality of vulva, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.91	Other and unspecified abnormality of organs and soft tissues of pelvis, with delivery	Diagnosis	ICD-9-CM
654.92	Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
655.01	Central nervous system malformation in fetus, with delivery	Diagnosis	ICD-9-CM
655.11	Chromosomal abnormality in fetus, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.21	Hereditary disease in family possibly affecting fetus, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.31	Suspected damage to fetus from viral disease in mother, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.41	Suspected damage to fetus from other disease in mother, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.51	Suspected damage to fetus from drugs, affecting management of mother, delivered	Diagnosis	ICD-9-CM
655.61	Suspected damage to fetus from radiation, affecting management of mother, delivered	Diagnosis	ICD-9-CM
655.71	Decreased fetal movements, affecting management of mother, delivered	Diagnosis	ICD-9-CM
655.81	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivery	Diagnosis	ICD-9-CM
655.91	Unspecified fetal abnormality affecting management of mother, delivery	Diagnosis	ICD-9-CM
656.01	Fetal-maternal hemorrhage, with delivery	Diagnosis	ICD-9-CM
656.11	Rhesus isoimmunization affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.21	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.31	Fetal distress affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.41	Intrauterine death affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.51	Poor fetal growth, affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.61	Excessive fetal growth affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.71	Other placental conditions affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.81	Other specified fetal and placental problems affecting management of mother, delivered	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
656.91	Unspecified fetal and placental problem affecting management of mother, delivered	Diagnosis	ICD-9-CM
657.01	Polyhydramnios, with delivery	Diagnosis	ICD-9-CM
658.01	Oligohydramnios, delivered	Diagnosis	ICD-9-CM
658.11	Premature rupture of membranes in pregnancy, delivered	Diagnosis	ICD-9-CM
658.21	Delayed delivery after spontaneous or unspecified rupture of membranes, delivered	Diagnosis	ICD-9-CM
658.31	Delayed delivery after artificial rupture of membranes, delivered	Diagnosis	ICD-9-CM
658.41	Infection of amniotic cavity, delivered	Diagnosis	ICD-9-CM
658.81	Other problem associated with amniotic cavity and membranes, delivered	Diagnosis	ICD-9-CM
658.91	Unspecified problem associated with amniotic cavity and membranes, delivered	Diagnosis	ICD-9-CM
659.01	Failed mechanical induction of labor, delivered	Diagnosis	ICD-9-CM
659.11	Failed medical or unspecified induction of labor, delivered	Diagnosis	ICD-9-CM
659.21	Unspecified maternal pyrexia during labor, delivered	Diagnosis	ICD-9-CM
659.31	Generalized infection during labor, delivered	Diagnosis	ICD-9-CM
659.41	Grand multiparity, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
659.51	Elderly primigravida, delivered	Diagnosis	ICD-9-CM
659.61	Elderly multigravida, delivered, with mention of antepartum condition	Diagnosis	ICD-9-CM
659.71	Abnormality in fetal heart rate or rhythm, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
659.81	Other specified indication for care or intervention related to labor and delivery, delivered	Diagnosis	ICD-9-CM
659.91	Unspecified indication for care or intervention related to labor and delivery, delivered	Diagnosis	ICD-9-CM
660.01	Obstruction caused by malposition of fetus at onset of labor, delivered	Diagnosis	ICD-9-CM
660.11	Obstruction by bony pelvis during labor and delivery, delivered	Diagnosis	ICD-9-CM
660.21	Obstruction by abnormal pelvic soft tissues during labor and delivery, delivered	Diagnosis	ICD-9-CM
660.31	Deep transverse arrest and persistent occipitoposterior position during labor and deliver, delivered	Diagnosis	ICD-9-CM
660.41	Shoulder (girdle) dystocia during labor and deliver, delivered	Diagnosis	ICD-9-CM
660.51	Locked twins, delivered	Diagnosis	ICD-9-CM
660.61	Unspecified failed trial of labor, delivered	Diagnosis	ICD-9-CM
660.71	Unspecified failed forceps or vacuum extractor, delivered	Diagnosis	ICD-9-CM
660.81	Other causes of obstructed labor, delivered	Diagnosis	ICD-9-CM
660.91	Unspecified obstructed labor, with delivery	Diagnosis	ICD-9-CM
661.01	Primary uterine inertia, with delivery	Diagnosis	ICD-9-CM
661.11	Secondary uterine inertia, with delivery	Diagnosis	ICD-9-CM
661.21	Other and unspecified uterine inertia, with delivery	Diagnosis	ICD-9-CM
661.31	Precipitate labor, with delivery	Diagnosis	ICD-9-CM
661.41	Hypertonic, incoordinate, or prolonged uterine contractions, with delivery	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
661.91	Unspecified abnormality of labor, with delivery	Diagnosis	ICD-9-CM
662.01	Prolonged first stage of labor, delivered	Diagnosis	ICD-9-CM
662.11	Unspecified prolonged labor, delivered	Diagnosis	ICD-9-CM
662.21	Prolonged second stage of labor, delivered	Diagnosis	ICD-9-CM
662.31	Delayed delivery of second twin, triplet, etc., delivered	Diagnosis	ICD-9-CM
663.01	Prolapse of cord, complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.11	Cord around neck, with compression, complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.21	Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.31	Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.41	Short cord complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.51	Vasa previa complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.61	Vascular lesions of cord complicating labor and delivery, delivered	Diagnosis	ICD-9-CM
663.81	Other umbilical cord complications during labor and delivery, delivered	Diagnosis	ICD-9-CM
663.91	Unspecified umbilical cord complication during labor and delivery, delivered	Diagnosis	ICD-9-CM
664.01	First-degree perineal laceration, with delivery	Diagnosis	ICD-9-CM
664.11	Second-degree perineal laceration, with delivery	Diagnosis	ICD-9-CM
664.21	Third-degree perineal laceration, with delivery	Diagnosis	ICD-9-CM
664.31	Fourth-degree perineal laceration, with delivery	Diagnosis	ICD-9-CM
664.41	Unspecified perineal laceration, with delivery	Diagnosis	ICD-9-CM
664.51	Vulvar and perineal hematoma, with delivery	Diagnosis	ICD-9-CM
664.61	Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
664.81	Other specified trauma to perineum and vulva, with delivery	Diagnosis	ICD-9-CM
664.91	Unspecified trauma to perineum and vulva, with delivery	Diagnosis	ICD-9-CM
665.01	Rupture of uterus before onset of labor, with delivery	Diagnosis	ICD-9-CM
665.11	Rupture of uterus during labor, with delivery	Diagnosis	ICD-9-CM
665.22	Inversion of uterus, delivered with postpartum complication	Diagnosis	ICD-9-CM
665.31	Laceration of cervix, with delivery	Diagnosis	ICD-9-CM
665.41	High vaginal laceration, with delivery	Diagnosis	ICD-9-CM
665.51	Other injury to pelvic organs, with delivery	Diagnosis	ICD-9-CM
665.61	Damage to pelvic joints and ligaments, with delivery	Diagnosis	ICD-9-CM
665.71	Pelvic hematoma, with delivery	Diagnosis	ICD-9-CM
665.72	Pelvic hematoma, delivered with postpartum complication	Diagnosis	ICD-9-CM
665.81	Other specified obstetrical trauma, with delivery	Diagnosis	ICD-9-CM
665.82	Other specified obstetrical trauma, delivered, with postpartum	Diagnosis	ICD-9-CM
665.91	Unspecified obstetrical trauma, with delivery	Diagnosis	ICD-9-CM
665.92	Unspecified obstetrical trauma, delivered, with postpartum complication	Diagnosis	ICD-9-CM
666.02	Third-stage postpartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
666.12	Other immediate postpartum hemorrhage, with delivery	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
666.22	Delayed and secondary postpartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
666.32	Postpartum coagulation defects, with delivery	Diagnosis	ICD-9-CM
667.02	Retained placenta without hemorrhage, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
667.12	Retained portions of placenta or membranes, without hemorrhage, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.01	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.02	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.11	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.12	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.21	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.22	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.81	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.82	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.91	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.92	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.01	Maternal distress, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.02	Maternal distress, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.11	Shock during or following labor and delivery, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.12	Shock during or following labor and delivery, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.21	Maternal hypotension syndrome, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.22	Maternal hypotension syndrome, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.32	Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.41	Other complications of obstetrical surgery and procedures, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
669.42	Other complications of obstetrical surgery and procedures, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.51	Forceps or vacuum extractor delivery without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.61	Breech extraction, without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.71	Cesarean delivery, without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.81	Other complication of labor and delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.82	Other complication of labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.91	Unspecified complication of labor and delivery, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.92	Unspecified complication of labor and delivery, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.02	Major puerperal infection, unspecified, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.12	Puerperal endometritis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.22	Puerperal sepsis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.32	Puerperal septic thrombophlebitis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.82	Other major puerperal infection, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.01	Varicose veins of legs, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.02	Varicose veins of legs, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.11	Varicose veins of vulva and perineum, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.12	Varicose veins of vulva and perineum, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.21	Superficial thrombophlebitis with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.22	Superficial thrombophlebitis with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.31	Deep phlebothrombosis, antepartum, with delivery	Diagnosis	ICD-9-CM
671.42	Deep phlebothrombosis, postpartum, with delivery	Diagnosis	ICD-9-CM
671.51	Other phlebitis and thrombosis with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.52	Other phlebitis and thrombosis with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.81	Other venous complication, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
671.82	Other venous complication, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.91	Unspecified venous complication, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.92	Unspecified venous complication, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
672.02	Puerperal pyrexia of unknown origin, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.01	Obstetrical air embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.02	Obstetrical air embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.11	Amniotic fluid embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.12	Amniotic fluid embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.21	Obstetrical blood-clot embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.22	Obstetrical blood-clot embolism, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.31	Obstetrical pyemic and septic embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.32	Obstetrical pyemic and septic embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.81	Other obstetrical pulmonary embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.82	Other obstetrical pulmonary embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.01	Cerebrovascular disorder, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
674.02	Cerebrovascular disorder, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.12	Disruption of cesarean wound, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.22	Disruption of perineal wound, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.32	Other complication of obstetrical surgical wounds, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.42	Placental polyp, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.51	Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
674.52	Peripartum cardiomyopathy, delivered, with mention of postpartum condition	Diagnosis	ICD-9-CM
674.82	Other complication of puerperium, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
674.92	Unspecified complications of puerperium, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.01	Infection of nipple associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.02	Infection of nipple associated with childbirth, delivered with mention of postpartum complication	Diagnosis	ICD-9-CM
675.11	Abscess of breast associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.12	Abscess of breast associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.21	Nonpurulent mastitis, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.22	Nonpurulent mastitis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.81	Other specified infection of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.82	Other specified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.91	Unspecified infection of the breast and nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.92	Unspecified infection of the breast and nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.01	Retracted nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.02	Retracted nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.11	Cracked nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.12	Cracked nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.21	Engorgement of breasts, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.22	Engorgement of breasts, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.31	Other and unspecified disorder of breast associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.32	Other and unspecified disorder of breast associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.41	Failure of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.42	Failure of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.51	Suppressed lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.52	Suppressed lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.61	Galactorrhea, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.62	Galactorrhea, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.81	Other disorder of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
676.82	Other disorder of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.91	Unspecified disorder of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.92	Unspecified disorder of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
678.01	Fetal hematologic conditions, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
678.11	Fetal conjoined twins, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.01	Maternal complications from in utero procedure, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.02	Maternal complications from in utero procedure, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
679.11	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.12	Fetal complications from in utero procedure, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
72	Forceps, vacuum, and breech delivery	Procedure	ICD-9-CM
72.0	Low forceps operation	Procedure	ICD-9-CM
72.1	Low forceps operation with episiotomy	Procedure	ICD-9-CM
72.2	Mid forceps operation	Procedure	ICD-9-CM
72.21	Mid forceps operation with episiotomy	Procedure	ICD-9-CM
72.29	Other mid forceps operation	Procedure	ICD-9-CM
72.3	High forceps operation	Procedure	ICD-9-CM
72.31	High forceps operation with episiotomy	Procedure	ICD-9-CM
72.39	Other high forceps operation	Procedure	ICD-9-CM
72.4	Forceps rotation of fetal head	Procedure	ICD-9-CM
72.5	Breech extraction	Procedure	ICD-9-CM
72.51	Partial breech extraction with forceps to aftercoming head	Procedure	ICD-9-CM
72.52	Other partial breech extraction	Procedure	ICD-9-CM
72.53	Total breech extraction with forceps to aftercoming head	Procedure	ICD-9-CM
72.54	Other total breech extraction	Procedure	ICD-9-CM
72.6	Forceps application to aftercoming head	Procedure	ICD-9-CM
72.7	Vacuum extraction	Procedure	ICD-9-CM
72.71	Vacuum extraction with episiotomy	Procedure	ICD-9-CM
72.79	Other vacuum extraction	Procedure	ICD-9-CM
72.8	Other specified instrumental delivery	Procedure	ICD-9-CM
72.9	Unspecified instrumental delivery	Procedure	ICD-9-CM
73	Other procedures inducing or assisting delivery	Procedure	ICD-9-CM
73.0	Artificial rupture of membranes	Procedure	ICD-9-CM
73.01	Induction of labor by artificial rupture of membranes	Procedure	ICD-9-CM
73.09	Other artificial rupture of membranes	Procedure	ICD-9-CM

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Code	Description	Code Category	Code Type
73.1	Other surgical induction of labor	Procedure	ICD-9-CM
73.2	Internal and combined version and extraction	Procedure	ICD-9-CM
73.21	Internal and combined version without extraction	Procedure	ICD-9-CM
73.22	Internal and combined version with extraction	Procedure	ICD-9-CM
73.3	Failed forceps	Procedure	ICD-9-CM
73.4	Medical induction of labor	Procedure	ICD-9-CM
73.5	Manually assisted delivery	Procedure	ICD-9-CM
73.51	Manual rotation of fetal head	Procedure	ICD-9-CM
73.59	Other manually assisted delivery	Procedure	ICD-9-CM
73.6	Episiotomy	Procedure	ICD-9-CM
73.8	Operations on fetus to facilitate delivery	Procedure	ICD-9-CM
73.9	Other operations assisting delivery	Procedure	ICD-9-CM
73.91	External version to assist delivery	Procedure	ICD-9-CM
73.92	Replacement of prolapsed umbilical cord	Procedure	ICD-9-CM
73.93	Incision of cervix to assist delivery	Procedure	ICD-9-CM
73.94	Pubiotomy to assist delivery	Procedure	ICD-9-CM
73.99	Other operations to assist delivery	Procedure	ICD-9-CM
74.0	Classical cesarean section	Procedure	ICD-9-CM
74.1	Low cervical cesarean section	Procedure	ICD-9-CM
74.2	Extraperitoneal cesarean section	Procedure	ICD-9-CM
74.4	Cesarean section of other specified type	Procedure	ICD-9-CM
74.9	Cesarean section of unspecified type	Procedure	ICD-9-CM
74.99	Other cesarean section of unspecified type	Procedure	ICD-9-CM
763.0	Fetus or newborn affected by breech delivery and extraction	Diagnosis	ICD-9-CM
763.2	Fetus or newborn affected by forceps delivery	Diagnosis	ICD-9-CM
763.3	Fetus or newborn affected by delivery by vacuum extractor	Diagnosis	ICD-9-CM
763.4	Fetus or newborn affected by cesarean delivery	Diagnosis	ICD-9-CM
763.6	Fetus or newborn affected by precipitate delivery	Diagnosis	ICD-9-CM
768.0	Fetal death from asphyxia or anoxia before onset of labor or at unspecified time	Diagnosis	ICD-9-CM
768.1	Fetal death from asphyxia or anoxia during labor	Diagnosis	ICD-9-CM
O10.02	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O10.12	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.42	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O10.92	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
O11.4	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O12.04	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
O12.14	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O12.24	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O13.4	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O14.04	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O14.14	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O14.24	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O14.94	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O16.4	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O24.02	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.12	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.32	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24.424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24.425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O24.82	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.92	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O25.2	Malnutrition in childbirth	Diagnosis	ICD-10-CM
O26.62	Liver and biliary tract disorders in childbirth	Diagnosis	ICD-10-CM
O26.72	Subluxation of symphysis (pubis) in childbirth	Diagnosis	ICD-10-CM
O60.12X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.12X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	Diagnosis	ICD-10-CM
O60.12X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O60.12X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O60.12X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O60.12X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	Diagnosis	ICD-10-CM
O60.12X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	Diagnosis	ICD-10-CM
O60.13X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.13X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O60.13X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O60.13X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O60.13X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O60.13X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O60.13X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O60.14X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.14X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O60.14X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O60.14X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O60.14X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O60.14X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O60.14X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O60.22X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.22X1	Term delivery with preterm labor, second trimester, fetus 1	Diagnosis	ICD-10-CM
O60.22X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O60.22X3	Term delivery with preterm labor, second trimester, fetus 3	Diagnosis	ICD-10-CM
O60.22X4	Term delivery with preterm labor, second trimester, fetus 4	Diagnosis	ICD-10-CM
O60.22X5	Term delivery with preterm labor, second trimester, fetus 5	Diagnosis	ICD-10-CM
O60.22X9	Term delivery with preterm labor, second trimester, other fetus	Diagnosis	ICD-10-CM
O60.23X0	Term delivery with preterm labor, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.23X1	Term delivery with preterm labor, third trimester, fetus 1	Diagnosis	ICD-10-CM
O60.23X2	Term delivery with preterm labor, third trimester, fetus 2	Diagnosis	ICD-10-CM
O60.23X3	Term delivery with preterm labor, third trimester, fetus 3	Diagnosis	ICD-10-CM
O60.23X4	Term delivery with preterm labor, third trimester, fetus 4	Diagnosis	ICD-10-CM
O60.23X5	Term delivery with preterm labor, third trimester, fetus 5	Diagnosis	ICD-10-CM
O60.23X9	Term delivery with preterm labor, third trimester, other fetus	Diagnosis	ICD-10-CM
O63.2	Delayed delivery of second twin, triplet, etc.	Diagnosis	ICD-10-CM
O67.0	Intrapartum hemorrhage with coagulation defect	Diagnosis	ICD-10-CM
O67.8	Other intrapartum hemorrhage	Diagnosis	ICD-10-CM
O67.9	Intrapartum hemorrhage, unspecified	Diagnosis	ICD-10-CM
O68	Labor and delivery complicated by abnormality of fetal acid-base balance	Diagnosis	ICD-10-CM
O69.0XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.0XX1	Labor and delivery complicated by prolapse of cord, fetus 1	Diagnosis	ICD-10-CM
O69.0XX2	Labor and delivery complicated by prolapse of cord, fetus 2	Diagnosis	ICD-10-CM
O69.0XX3	Labor and delivery complicated by prolapse of cord, fetus 3	Diagnosis	ICD-10-CM
O69.0XX4	Labor and delivery complicated by prolapse of cord, fetus 4	Diagnosis	ICD-10-CM
O69.0XX5	Labor and delivery complicated by prolapse of cord, fetus 5	Diagnosis	ICD-10-CM
O69.0XX9	Labor and delivery complicated by prolapse of cord, other fetus	Diagnosis	ICD-10-CM
O69.1XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.1XX1	Labor and delivery complicated by cord around neck, with compression, fetus 1	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O69.1XX2	Labor and delivery complicated by cord around neck, with compression, fetus 2	Diagnosis	ICD-10-CM
O69.1XX3	Labor and delivery complicated by cord around neck, with compression, fetus 3	Diagnosis	ICD-10-CM
O69.1XX4	Labor and delivery complicated by cord around neck, with compression, fetus 4	Diagnosis	ICD-10-CM
O69.1XX5	Labor and delivery complicated by cord around neck, with compression, fetus 5	Diagnosis	ICD-10-CM
O69.1XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	Diagnosis	ICD-10-CM
O69.2XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.2XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O69.2XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O69.2XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O69.2XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O69.2XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O69.2XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	Diagnosis	ICD-10-CM
O69.3XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.3XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O69.3XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O69.3XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O69.3XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O69.3XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O69.3XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O69.4XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.4XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O69.4XX2	Labor and delivery complicated by vasa previa, fetus 2	Diagnosis	ICD-10-CM
O69.4XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O69.4XX4	Labor and delivery complicated by vasa previa, fetus 4	Diagnosis	ICD-10-CM
O69.4XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O69.4XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O69.5XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.5XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O69.5XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O69.5XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O69.5XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	Diagnosis	ICD-10-CM
O69.5XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM
O69.5XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O69.81X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.81X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O69.81X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O69.81X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O69.81X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O69.81X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM
O69.81X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM
O69.82X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.82X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O69.82X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O69.82X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O69.82X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O69.82X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O69.82X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O69.89X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.89X1	Labor and delivery complicated by other cord complications, fetus 1	Diagnosis	ICD-10-CM
O69.89X2	Labor and delivery complicated by other cord complications, fetus 2	Diagnosis	ICD-10-CM
O69.89X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O69.89X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O69.89X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O69.89X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O69.9XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.9XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O69.9XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O69.9XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O69.9XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O69.9XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM
O69.9XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O70.0	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O70.1	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O70.20	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O70.21	Third degree perineal laceration during delivery, IIIa	Diagnosis	ICD-10-CM
O70.22	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O70.23	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O70.3	Fourth degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O70.4	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O70.9	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O74.0	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.1	Other pulmonary complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.2	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.3	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.4	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.5	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O74.6	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.7	Failed or difficult intubation for anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.8	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.9	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM
O75.0	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM
O75.1	Shock during or following labor and delivery	Diagnosis	ICD-10-CM
O75.5	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
O75.81	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
O75.82	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
O75.89	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
O75.9	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
O76	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
O77.0	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
O77.8	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
O77.9	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
O80	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O88.02	Air embolism in childbirth	Diagnosis	ICD-10-CM
O88.12	Amniotic fluid embolism in childbirth	Diagnosis	ICD-10-CM
O88.22	Thromboembolism in childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O88.32	Pyemic and septic embolism in childbirth	Diagnosis	ICD-10-CM
O88.82	Other embolism in childbirth	Diagnosis	ICD-10-CM
O98.02	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O98.12	Syphilis complicating childbirth	Diagnosis	ICD-10-CM
O98.22	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM
O98.32	Other infections with a predominantly sexual mode of transmission complicating childbirth	Diagnosis	ICD-10-CM
O98.42	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O98.52	Other viral diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.62	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.72	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O98.82	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.92	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
O99.02	Anemia complicating childbirth	Diagnosis	ICD-10-CM
O99.12	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
O99.214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99.284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
O99.314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
O99.324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
O99.354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
O99.42	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O99.52	Diseases of the respiratory system complicating childbirth	Diagnosis	ICD-10-CM
O99.62	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM
O99.72	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
O99.814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM
O99.824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99.834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A.12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A.22	Injury, poisoning and certain other consequences of external causes complicating childbirth	Diagnosis	ICD-10-CM
O9A.32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A.42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A.52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P03.0	Newborn affected by breech delivery and extraction	Diagnosis	ICD-10-CM
P03.2	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P03.3	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P03.4	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P03.5	Newborn affected by precipitate delivery	Diagnosis	ICD-10-CM
P07.00	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
P07.01	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P07.02	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P07.03	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P07.10	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.14	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P07.15	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P07.16	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P07.17	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P07.18	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P07.20	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P07.21	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P07.22	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P07.23	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P07.24	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P07.25	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P07.26	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P07.30	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P07.31	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P07.32	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P07.33	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P07.34	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P07.35	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P07.36	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P07.37	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P07.38	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P07.39	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P08.21	Post-term newborn	Diagnosis	ICD-10-CM
P08.22	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
V27	Outcome of delivery	Diagnosis	ICD-9-CM
V27.0	Outcome of delivery, single liveborn	Diagnosis	ICD-9-CM
V27.1	Outcome of delivery, single stillborn	Diagnosis	ICD-9-CM
V27.2	Outcome of delivery, twins, both liveborn	Diagnosis	ICD-9-CM
V27.3	Outcome of delivery, twins, one liveborn and one stillborn	Diagnosis	ICD-9-CM
V27.4	Outcome of delivery, twins, both stillborn	Diagnosis	ICD-9-CM
V27.5	Outcome of delivery, other multiple birth, all liveborn	Diagnosis	ICD-9-CM
V27.6	Outcome of delivery, other multiple birth, some liveborn	Diagnosis	ICD-9-CM
V27.7	Outcome of delivery, other multiple birth, all stillborn	Diagnosis	ICD-9-CM
V27.9	Outcome of delivery, unspecified	Diagnosis	ICD-9-CM
V30	Single liveborn	Diagnosis	ICD-9-CM
V30.0	Single liveborn, born in hospital	Diagnosis	ICD-9-CM
V30.00	Single liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V30.01	Single liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V30.1	Single liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V30.2	Single liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V31	Twin birth, mate liveborn	Diagnosis	ICD-9-CM
V31.0	Twin, mate liveborn, born in hospital	Diagnosis	ICD-9-CM
V31.00	Twin, mate liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V31.01	Twin, mate liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V31.1	Twin birth, mate liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V31.2	Twin birth, mate liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V32	Twin birth, mate stillborn	Diagnosis	ICD-9-CM
V32.0	Twin, mate stillborn, born in hospital	Diagnosis	ICD-9-CM
V32.00	Twin, mate stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V32.01	Twin, mate stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V32.1	Twin birth, mate stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V32.2	Twin birth, mate stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V33	Twin birth, unspecified whether mate liveborn or stillborn	Diagnosis	ICD-9-CM
V33.0	Twin, unspecified, born in hospital	Diagnosis	ICD-9-CM
V33.00	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V33.01	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V33.1	Twin birth, unspecified whether mate liveborn or stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V33.2	Twin birth, unspecified whether mate liveborn or stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V34	Other multiple birth (three or more), mates all liveborn	Diagnosis	ICD-9-CM
V34.0	Other multiple, mates all liveborn, born in hospital	Diagnosis	ICD-9-CM
V34.00	Other multiple, mates all liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V34.01	Other multiple, mates all liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V34.1	Other multiple birth (three or more), mates all liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V34.2	Other multiple birth (three or more), mates all liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V35	Other multiple birth (three or more), mates all stillborn	Diagnosis	ICD-9-CM
V35.0	Other multiple, mates all stillborn, born in hospital	Diagnosis	ICD-9-CM
V35.00	Other multiple, mates all stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V35.01	Other multiple, mates all stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
V35.1	Other multiple birth (three or more), mates all stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V35.2	Other multiple birth (three or more), mates all stillborn, born outside of hospital and not hospitalized	Diagnosis	ICD-9-CM
V36	Other multiple birth (three or more), mates liveborn and stillborn	Diagnosis	ICD-9-CM
V36.0	Other multiple, mates liveborn and stillborn, born in hospital	Diagnosis	ICD-9-CM
V36.00	Other multiple, mates liveborn and stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V36.01	Other multiple, mates liveborn and stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V36.1	Other multiple birth (three or more), mates liveborn and stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V36.2	Other multiple birth (three or more), mates liveborn and stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V37	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn	Diagnosis	ICD-9-CM
V37.0	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital	Diagnosis	ICD-9-CM
V37.00	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V37.01	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V37.1	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V37.2	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born outside of hospital	Diagnosis	ICD-9-CM
V39	Liveborn, unspecified whether single, twin, or multiple	Diagnosis	ICD-9-CM
V39.0	Other liveborn, unspecified whether single, twin, or multiple, born in hospital	Diagnosis	ICD-9-CM
V39.00	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V39.01	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered by cesarean	Diagnosis	ICD-9-CM
V39.1	Liveborn, unspecified whether single, twin or multiple, born before admission to hospital	Diagnosis	ICD-9-CM
V39.2	Liveborn, unspecified whether single, twin or multiple, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
Z37.0	Single live birth	Diagnosis	ICD-10-CM
Z37.2	Twins, both liveborn	Diagnosis	ICD-10-CM
Z37.3	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z37.50	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z37.51	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z37.52	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z37.53	Quintuplets, all liveborn	Diagnosis	ICD-10-CM

Appendix B. List of Current Procedural Terminology, Fourth Edition (CPT-4), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
Z37.54	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z37.59	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z37.60	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z37.61	Triplets, some liveborn	Diagnosis	ICD-10-CM
Z37.62	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z37.63	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z37.64	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z37.69	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z37.9	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z38.00	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.01	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.1	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.2	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z38.30	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.31	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.4	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.5	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z38.61	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.62	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.63	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.64	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.65	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.66	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.68	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.69	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.7	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.8	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
ADHD			
312.00	Unsocial aggress-unspec	Diagnosis	ICD-9-CM
312.01	Unsocial aggression-mild	Diagnosis	ICD-9-CM
312.02	Unsocial aggression-mod	Diagnosis	ICD-9-CM
312.03	Unsocial aggress-severe	Diagnosis	ICD-9-CM
312.10	Unsocial unaggress-unsp	Diagnosis	ICD-9-CM
312.11	Unsocial unaggress-mild	Diagnosis	ICD-9-CM
312.12	Unsocial unaggress-mod	Diagnosis	ICD-9-CM
312.13	Unsocial unaggr-severe	Diagnosis	ICD-9-CM
312.20	Social conduct dis-unsp	Diagnosis	ICD-9-CM
312.21	Social conduct dis-mild	Diagnosis	ICD-9-CM
312.22	Social conduct dis-mod	Diagnosis	ICD-9-CM
312.23	Social conduct dis-sev	Diagnosis	ICD-9-CM
312.30	Impulse control dis NOS	Diagnosis	ICD-9-CM
312.31	Pathological gambling	Diagnosis	ICD-9-CM
312.32	Kleptomania	Diagnosis	ICD-9-CM
312.33	Pyromania	Diagnosis	ICD-9-CM
312.34	Intermitt explosive dis	Diagnosis	ICD-9-CM
312.35	Isolated explosive dis	Diagnosis	ICD-9-CM
312.39	Impulse control dis NEC	Diagnosis	ICD-9-CM
312.4	Mix dis conduct/emotion	Diagnosis	ICD-9-CM
312.81	Cndct dsrdr chldhd onst	Diagnosis	ICD-9-CM
312.82	Cndct dsrdr adlscnt onst	Diagnosis	ICD-9-CM
312.89	Other conduct disorder	Diagnosis	ICD-9-CM
312.9	Conduct disturbance NOS	Diagnosis	ICD-9-CM
314.00	Attention deficit disorder of childhood without mention of hyperactivity	Diagnosis	ICD-9-CM
314.01	Attention deficit disorder of childhood with hyperactivity	Diagnosis	ICD-9-CM
314.1	Hyperkinet w devel delay	Diagnosis	ICD-9-CM
314.2	Hyperkinetic conduct dis	Diagnosis	ICD-9-CM
314.8	Other hyperkinetic synd	Diagnosis	ICD-9-CM
314.9	Hyperkinetic synd NOS	Diagnosis	ICD-9-CM
F63.0	Pathological gambling	Diagnosis	ICD-10-CM
F63.1	Pyromania	Diagnosis	ICD-10-CM
F63.2	Kleptomania	Diagnosis	ICD-10-CM
F63.3	Trichotillomania	Diagnosis	ICD-10-CM
F63.81	Intermittent explosive disorder	Diagnosis	ICD-10-CM
F63.89	Other impulse disorders	Diagnosis	ICD-10-CM
F63.9	Impulse disorder, unspecified	Diagnosis	ICD-10-CM
F90.0	Attention-deficit hyperactivity disorder, predominantly inattentive type	Diagnosis	ICD-10-CM
F90.1	Attention-deficit hyperactivity disorder, predominantly hyperactive type	Diagnosis	ICD-10-CM
F90.2	Attention-deficit hyperactivity disorder, combined type	Diagnosis	ICD-10-CM
F90.8	Attention-deficit hyperactivity disorder, other type	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
F90.9	Attention-deficit hyperactivity disorder, unspecified type	Diagnosis	ICD-10-CM
F91.0	Conduct disorder confined to family context	Diagnosis	ICD-10-CM
F91.1	Conduct disorder, childhood-onset type	Diagnosis	ICD-10-CM
F91.2	Conduct disorder, adolescent-onset type	Diagnosis	ICD-10-CM
F91.3	Oppositional defiant disorder	Diagnosis	ICD-10-CM
F91.8	Other conduct disorders	Diagnosis	ICD-10-CM
F91.9	Conduct disorder, unspecified	Diagnosis	ICD-10-CM
Anxiety			
293.84	Anxiety disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
300.00	Anxiety state, unspecified	Diagnosis	ICD-9-CM
300.01	Panic disorder without agoraphobia	Diagnosis	ICD-9-CM
300.02	Generalized anxiety disorder	Diagnosis	ICD-9-CM
300.09	Other anxiety states	Diagnosis	ICD-9-CM
300.10	Hysteria, NOS	Diagnosis	ICD-9-CM
300.20	Phobia, unspecified	Diagnosis	ICD-9-CM
300.21	Agoraphobia with panic disorder	Diagnosis	ICD-9-CM
300.22	Agoraphobia without mention of panic attacks	Diagnosis	ICD-9-CM
300.23	Social phobia	Diagnosis	ICD-9-CM
300.29	Other isolated or specific phobias	Diagnosis	ICD-9-CM
300.3	Obsessive-compulsive dis	Diagnosis	ICD-9-CM
300.5	Neurasthenia	Diagnosis	ICD-9-CM
300.89	Somatoform disorders NEC	Diagnosis	ICD-9-CM
300.9	Nonpsychotic disord NOS	Diagnosis	ICD-9-CM
308.0	Stress react, emotional	Diagnosis	ICD-9-CM
308.1	Stress reaction, fugue	Diagnosis	ICD-9-CM
308.2	Stress react, psychomot	Diagnosis	ICD-9-CM
308.3	Acute stress react NEC	Diagnosis	ICD-9-CM
308.4	Stress react, mixed dis	Diagnosis	ICD-9-CM
308.9	Acute stress react NOS	Diagnosis	ICD-9-CM
309.81	Posttraumatic stress dis	Diagnosis	ICD-9-CM
313.0	Overanxious disorder	Diagnosis	ICD-9-CM
313.1	Misery & unhappiness dis	Diagnosis	ICD-9-CM
313.21	Shyness disorder-child	Diagnosis	ICD-9-CM
313.22	Introverted dis-child	Diagnosis	ICD-9-CM
313.3	Relationship problems	Diagnosis	ICD-9-CM
313.82	Identity disorder	Diagnosis	ICD-9-CM
313.83	Academic underachievement	Diagnosis	ICD-9-CM
F06.4	Anxiety disorder due to known physiological condition	Diagnosis	ICD-10-CM
F40.00	Agoraphobia, unspecified	Diagnosis	ICD-10-CM
F40.01	Agoraphobia with panic disorder	Diagnosis	ICD-10-CM
F40.02	Agoraphobia without panic disorder	Diagnosis	ICD-10-CM
F40.10	Social phobia, unspecified	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
F40.11	Social phobia, generalized	Diagnosis	ICD-10-CM
F40.210	Arachnophobia	Diagnosis	ICD-10-CM
F40.218	Other animal type phobia	Diagnosis	ICD-10-CM
F40.220	Fear of thunderstorms	Diagnosis	ICD-10-CM
F40.228	Other natural environment type phobia	Diagnosis	ICD-10-CM
F40.230	Fear of blood	Diagnosis	ICD-10-CM
F40.231	Fear of injections and transfusions	Diagnosis	ICD-10-CM
F40.232	Fear of other medical care	Diagnosis	ICD-10-CM
F40.233	Fear of injury	Diagnosis	ICD-10-CM
F40.240	Claustrophobia	Diagnosis	ICD-10-CM
F40.241	Acrophobia	Diagnosis	ICD-10-CM
F40.242	Fear of bridges	Diagnosis	ICD-10-CM
F40.243	Fear of flying	Diagnosis	ICD-10-CM
F40.248	Other situational type phobia	Diagnosis	ICD-10-CM
F40.290	Androphobia	Diagnosis	ICD-10-CM
F40.291	Gynephobia	Diagnosis	ICD-10-CM
F40.298	Other specified phobia	Diagnosis	ICD-10-CM
F40.8	Other phobic anxiety disorders	Diagnosis	ICD-10-CM
F40.9	Phobic anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F41.0	Panic disorder [episodic paroxysmal anxiety]	Diagnosis	ICD-10-CM
F41.1	Generalized anxiety disorder	Diagnosis	ICD-10-CM
F41.3	Other mixed anxiety disorders	Diagnosis	ICD-10-CM
F41.8	Other specified anxiety disorders	Diagnosis	ICD-10-CM
F41.9	Anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F42.2	Mixed obsessional thoughts and acts	Diagnosis	ICD-10-CM
F42.3	Hoarding disorder	Diagnosis	ICD-10-CM
F42.4	Excoriation (skin-picking) disorder	Diagnosis	ICD-10-CM
F42.8	Other obsessive-compulsive disorder	Diagnosis	ICD-10-CM
F42.9	Obsessive-compulsive disorder, unspecified	Diagnosis	ICD-10-CM
F43.0	Acute stress reaction	Diagnosis	ICD-10-CM
F43.10	Post-traumatic stress disorder, unspecified	Diagnosis	ICD-10-CM
F43.11	Post-traumatic stress disorder, acute	Diagnosis	ICD-10-CM
F43.12	Post-traumatic stress disorder, chronic	Diagnosis	ICD-10-CM
F44.9	Dissociative and conversion disorder, unspecified	Diagnosis	ICD-10-CM
F45.8	Other somatoform disorders	Diagnosis	ICD-10-CM
F48.8	Other specified nonpsychotic mental disorders	Diagnosis	ICD-10-CM
F48.9	Nonpsychotic mental disorder, unspecified	Diagnosis	ICD-10-CM
F93.8	Other childhood emotional disorders	Diagnosis	ICD-10-CM
F99	Mental disorder, not otherwise specified	Diagnosis	ICD-10-CM
R45.2	Unhappiness	Diagnosis	ICD-10-CM
R45.5	Hostility	Diagnosis	ICD-10-CM
R45.6	Violent behavior	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
R45.7	State of emotional shock and stress, unspecified	Diagnosis	ICD-10-CM
Autism			
299.0	Autistic disorder	Diagnosis	ICD-9-CM
299.00	Autistic disorder, current or active state	Diagnosis	ICD-9-CM
299.01	Autistic disorder, residual state	Diagnosis	ICD-9-CM
299.1	Childhood disintegrative disorder	Diagnosis	ICD-9-CM
299.10	Childhood disintegrative disorder-active	Diagnosis	ICD-9-CM
299.11	Childhood disintegrative disorder-residual	Diagnosis	ICD-9-CM
299.8	Other specified pervasive developmental disorders	Diagnosis	ICD-9-CM
299.80	Other specified pervasive developmental disorders-active	Diagnosis	ICD-9-CM
299.81	Other specified pervasive developmental disorders-residual	Diagnosis	ICD-9-CM
299.9	Unspecified pervasive developmental disorder	Diagnosis	ICD-9-CM
299.90	Unspecified pervasive developmental disorder-active	Diagnosis	ICD-9-CM
299.91	Unspecified pervasive developmental disorder-residual	Diagnosis	ICD-9-CM
F84.0	Autistic disorder	Diagnosis	ICD-10-CM
F84.3	Other childhood disintegrative disorder	Diagnosis	ICD-10-CM
F84.5	Asperger's syndrome	Diagnosis	ICD-10-CM
F84.8	Other pervasive developmental disorders	Diagnosis	ICD-10-CM
F84.9	Pervasive developmental disorder, unspecified	Diagnosis	ICD-10-CM
Depression			
296.20	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-9-CM
296.21	Major depressive disorder, single episode, mild	Diagnosis	ICD-9-CM
296.22	Major depressive disorder, single episode, moderate	Diagnosis	ICD-9-CM
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.25	Major depressive disorder, single episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.26	Major depressive disorder, single episode in full remission	Diagnosis	ICD-9-CM
296.30	Major depressive disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.31	Major depressive disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.32	Major depressive disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.36	Major depressive disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
300.4	Dysthymic disorder	Diagnosis	ICD-9-CM
311	Depressive disorder, not elsewhere classified	Diagnosis	ICD-9-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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, 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
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
Coronavirus 2019			
U07.1	COVID-19	Diagnosis	ICD-10-CM
Coronavirus Vaccine			
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/0.3mL 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/0.3mL dosage, diluent reconstituted, booster dose	Procedure	CPT-4
00069-1000-01	30 mcg/0.3 mL for adult 16+ (original formula)	RX	ND
00069-1000-02	30 mcg/0.3 mL for adult 16+ (original formula)	RX	ND
00069-1000-03	30 mcg/0.3 mL for adult 16+ (original formula)	RX	ND
00069-2025-01	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation	RX	ND
00069-2025-10	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation	RX	ND
00069-2025-25	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation	RX	ND

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics 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, 100mcg/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, 100mcg/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, 100mcg/0.5mL dosage, third 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, 5x1010 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, 5x1010 viral particles/0.5mL dosage; booster	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, 5mcg/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, 5mcg/0.5mL dosage; second dose	Procedure	CPT-4
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, 5mcg/0.5mL dosage; booster	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/0.3mL dosage, diluent reconstituted, 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/0.3mL dosage, diluent reconstituted, tris-sucrose formulation, second dose	Procedure	CPT-4

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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/0.3mL dosage, diluent reconstituted, 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/0.3mL dosage, diluent reconstituted, 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, 50mcg/0.25mL 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, 10mcg/0.2mL 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, 10mcg/0.2mL 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, 10mcg/0.2mL dosage, diluent reconstituted, tris-sucrose formulation, third dose	Procedure	CPT-4
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, 10mcg/0.2mL 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, 3mcg/0.2mL 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, 3mcg/0.2mL 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, 3mcg/0.2mL dosage, diluent reconstituted, tris-sucrose formulation, third dose	Procedure	CPT-4

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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, 50mcg/0.5mL dosage, for intramuscular use, first dose	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, 50mcg/0.5mL dosage, for intramuscular use, second dose	Procedure	CPT-4
0093A	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease[COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 50mcg/0.5mL dosage, for intramuscular use, third dose	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, 50mcg/0.5mL dosage, for intramuscular use, booster dose	Procedure	CPT-4
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, 25mcg/0.25mL dosage, for intramuscular use, 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, 25mcg/0.25mL dosage, for intramuscular use, second dose	Procedure	CPT-4
0113A	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease[COVID-19]) vaccine, mRNA-LNP, spike protein, preservative free, 25mcg/0.25mL dosage, for intramuscular use, 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/0.3mL dosage, diluent reconstituted, 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, mRN-LNP, spike protein, bivalent, preservative free, 50mcg/0.5mL 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, mRN-LNP, spike protein, bivalent, preservative free, 25mcg/0.25mL 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/0.2mL dosage, diluent reconstituted, tris-sucrose formulation booster dose	Procedure	CPT-4

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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/0.2mL dosage, booster dose	Procedure	CPT-4
207	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose; FDA EUA and BLA (18+ yrs), Moderna adult primary series and IC dose. EUA 8/31/2022 rescinded monovalent booster dose. Used to record Moderna vaccines administered in the US and in non-US locations (includes tradename Spikevax)	Procedure	CVX
208	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose; FDA EUA (12+ yrs) and BLA (16+ yrs), Pfizer adult primary series and IC dose original formulation. EUA 8/31/2022 rescinded monovalent booster dose. Used to record Pfizer vaccines administered in the US and in non-US locations (includes tradename Comirnaty)	Procedure	CVX
211	COVID-19, subunit, rS-nanoparticle+Matrix-M1 Adjuvant, PF, 0.5 mL; FDA EUA Authorized, Novavax primary series adult dose	Procedure	CVX
212	COVID-19 vaccine, vector-nr, rS-Ad26, PF, 0.5 mL; FDA EUA 02/27/2021, 1-dose vaccine. Used to record Janssen/J&J vaccines administered in the US and in non-US locations	Procedure	CVX
213	SARS-COV-2 (COVID-19) vaccine, UNSPECIFIED; Unspecified code for COVID-19 not to be used to record patient US administration. May be used to record historic US administration if product not known. CVX code 500 should be used to record Non-US vaccine where product is not known.	Procedure	CVX
217	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose; FDA EUA (12+ yrs) and BLA (16+ yrs), Pfizer adult primary series and IC dose tris-sucrose formulation. EUA 8/31/2022 rescinded monovalent booster dose	Procedure	CVX
218	COVID-19, mRNA, LNP-S, PF, 10 mcg/0.2 mL dose, tris-sucrose; FDA EUA (5 yrs through 11 yrs), Pfizer tris-sucrose pediatric primary series, IC, and booster	Procedure	CVX
219	COVID-19, mRNA, LNP-S, PF, 3 mcg/0.2 mL dose, tris-sucrose; FDA EUA (6 mo through 4 yrs), Pfizer tris-sucrose pediatric primary series	Procedure	CVX
221	COVID-19, mRNA, LNP-S, PF, 50 mcg/0.5 mL dose; FDA EUA Moderna, EUA 8/31/2022 rescinded use of this product for adult monovalent booster dose. Vaccine now only authorized for 6 yrs through 11 primary series and IC doses	Procedure	CVX
227	COVID-19, mRNA, LNP-S, PF, pediatric 50 mcg/0.5 mL dose; Temporarily inactivated - Use CVX code 221 for EUA Moderna Pediatric 6yr to<12 yr vaccine 2.5 mL vial, 50 mcg/0.5 mL dose	Procedure	CVX
228	COVID-19, mRNA, LNP-S, PF, pediatric 25 mcg/0.25 mL dose; FDA EUA Authorized (6 mo through 5 yrs), Moderna pediatric primary series and IC dose	Procedure	CVX

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Code	Description	Code Category	Code Type
229	COVID-19, mRNA, LNP-S, bivalent booster, PF, 50 mcg/0.5 mL or 25mcg/0.25 mL dose; EUA authorized Moderna bivalent booster 2 dose levels: ages 6 yrs thru 11 yrs 0.25mL dose; 12 years and older 0.5mL dose	Procedure	CVX
230	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL; Pre-EUA Moderna bivalent booster (ages 6 mo through 5 yrs), original strain + omicron BA.4/BA.5	Procedure	CVX
300	COVID-19, mRNA, LNP-S, bivalent booster, PF, 30 mcg/0.3 mL dose; EUA authorized Pfizer adult bivalent booster ages 12+ yrs, original strain + omicron BA.4/BA.5	Procedure	CVX
301	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL dose; EUA authorized (5 yrs through 11 yrs) Pfizer bivalent booster, original strain + omicron BA.4/BA.5	Procedure	CVX
302	COVID-19, mRNA, LNP-S, bivalent, PF, 3 mcg/0.2 mL dose; Pre-EUA Pfizer bivalent (ages 6 mo through 4 yrs), original strain + omicron BA.4/BA.5	Procedure	CVX
59267-0078-01	COVID-19, mRNA, LNP-S, PF, 3 mcg/0.2 mL dose, tris-sucrose	RX	ND
59267-0078-02	COVID-19 vac mRNA, tris(Pfizer)/PF	RX	ND
59267-0078-04	COVID-19, mRNA, LNP-S, PF, 3 mcg/0.2 mL dose, tris-sucrose	RX	ND
59267-0304-01	COVID-19, mRNA, LNP-S, bivalent booster, PF, 30 mcg/0.3 mL dose	RX	ND
59267-0304-02	COVID-19, mRNA, LNP-S, bivalent booster, PF, 30 mcg/0.3 mL dose	RX	ND
59267-0565-01	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL dose	RX	ND
59267-0565-02	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL dose	RX	ND
59267-0609-01	COVID-19, mRNA, LNP-S, bivalent, PF, 3 mcg/0.2 mL dose	RX	ND
59267-0609-02	COVID-19, mRNA, LNP-S, bivalent, PF, 3 mcg/0.2 mL dose	RX	ND
59267-1000-01	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose	RX	ND
59267-1000-02	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, reconstituted, 30 mcg/0.3mL dose	RX	ND
59267-1000-03	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, reconstituted, 30 mcg/0.3mL dose	RX	ND
59267-1025-01	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose	RX	ND
59267-1025-02	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose	RX	ND
59267-1025-03	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose	RX	ND
59267-1025-04	COVID-19, mRNA, LNP-S, PF, 30 mcg/0.3 mL dose, tris-sucrose	RX	ND
59267-1055-01	COVID-19, mRNA, LNP-S, PF, 10 mcg/0.2 mL dose, tris-sucrose	RX	ND
59267-1055-02	COVID-19, mRNA, LNP-S, PF, 10 mcg/0.2 mL dose, tris-sucrose	RX	ND
59267-1055-04	COVID-19, mRNA, LNP-S, PF, 10 mcg/0.2 mL dose, tris-sucrose	RX	ND
59267-1404-01	COVID-19, mRNA, LNP-S, bivalent booster, PF, 30 mcg/0.3 mL dose	RX	ND
59267-1404-02	COVID-19, mRNA, LNP-S, bivalent booster, PF, 30 mcg/0.3 mL dose	RX	ND
59676-0580-05	SARS-COV-2 (COVID-19) vaccine, vector non-replicating, recombinant spike protein- Ad26, preservative free, 0.5 mL	RX	ND

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
59676-0580-15	SARS-COV-2 (COVID-19) vaccine, vector non-replicating, recombinant spike protein- Ad26, preservative free, 0.5 mL	RX	ND
80631-0100-01	SARS-COV-2 (COVID-19) vaccine, Subunit, recombinant spike protein-nanoparticle+Matrix-M1 Adjuvant, preservative free, 0.5mL per dose	RX	ND
80631-0100-10	SARS-COV-2 (COVID-19) vaccine, Subunit, recombinant spike protein-nanoparticle+Matrix-M1 Adjuvant, preservative free, 0.5mL per dose	RX	ND
80631-0102-01	SARS-COV-2 (COVID-19) vaccine, Subunit, recombinant spike protein-nanoparticle+Matrix-M1 Adjuvant, preservative free, 0.5mL per dose	RX	ND
80631-0102-10	SARS-COV-2 (COVID-19) vaccine, Subunit, recombinant spike protein-nanoparticle+Matrix-M1 Adjuvant, preservative free, 0.5mL per dose	RX	ND
80777-0100-11	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	RX	ND
80777-0100-15	0.5 mL dose (same as original EUA formula)	RX	ND
80777-0100-98	0.5 mL dose (same as original EUA formula)	RX	ND
80777-0100-99	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	RX	ND
80777-0273-10	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	RX	ND
80777-0273-15	COVID-19, mRNA, LNP-S, PF, 100 mcg/0.5mL dose or 50 mcg/0.25mL dose	RX	ND
80777-0273-98	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 100 mcg/0.5mL dose	RX	ND
80777-0273-99	SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 100 mcg/0.5mL or 50mcg/0.25mL dose	RX	ND
80777-0275-05	COVID-19, mRNA, LNP-S, PF, 50 mcg/0.5 mL dose	RX	ND
80777-0275-99	COVID-19 vaccine, mRNA, spike protein, LNP, preservative free, 50 mcg/0.5 mL dose	RX	ND
80777-0277-05	COVID-19, mRNA, LNP-S, PF, pediatric 50 mcg/0.5 mL dose	RX	ND
80777-0277-99	COVID-19, mRNA, LNP-S, PF, pediatric 50 mcg/0.5 mL dose, 6yr-<12yr	RX	ND
80777-0279-05	COVID-19, mRNA, LNP-S, PF, pediatric 25 mcg/0.25 mL dose	RX	ND
80777-0279-99	COVID-19, mRNA, LNP-S, PF, pediatric 25 mcg/0.25 mL dose, 6mo-<6yr	RX	ND
80777-0280-05	0.5 mL dose of Original and Omicron COVID-19 strains	RX	ND
80777-0280-99	0.5 mL dose of Original and Omicron COVID-19 strains	RX	ND
80777-0282-05	COVID-19, mRNA, LNP-S, bivalent booster, PF, 50 mcg/0.5 mL or 25mcg/0.25 mL dose	RX	ND
80777-0282-99	COVID-19, mRNA, LNP-S, bivalent booster, PF, 50 mcg/0.5 mL or 25mcg/0.25 mL dose	RX	ND
80777-0283-02	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL	RX	ND
80777-0283-99	COVID-19, mRNA, LNP-S, bivalent booster, PF, 10 mcg/0.2 mL	RX	ND
91300	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, 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/0.5 mL dosage, for intramuscular use	Procedure	CPT-4

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Code	Description	Code Category	Code Type
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 ¹⁰ viral particles/0.5 mL 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/0.5 mL 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
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, bivalent spike protein, preservative free, 10 mcg/0.2 mL dosage, diluent reconstituted, tris-sucrose formulation, for intramuscular use	Procedure	CPT-4

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Code	Description	Code Category	Code Type
91316	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) (coronavirus disease [COVID-19]) vaccine, mRNA-LNP, spike protein, bivalent, preservative free, 10 mcg/0.2mL 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
M0201	COVID-19 vaccine home admin	Procedure	HCPCS
Encephalocele			
742.0	Encephalocele	Diagnosis	ICD-9-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
Spina Bifida			
741.0	Spina bifida with hydrocephalus	Diagnosis	ICD-9-CM
741.00	Spina bifida with hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.01	Spina bifida with hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.02	Spina bifida with hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.03	Spina bifida with hydrocephalus, lumbar region	Diagnosis	ICD-9-CM
741.9	Spina bifida without mention of hydrocephalus	Diagnosis	ICD-9-CM
741.90	Spina bifida without mention of hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.91	Spina bifida without mention of hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.92	Spina bifida without mention of hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.93	Spina bifida without mention of hydrocephalus, lumbar region	Diagnosis	ICD-9-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
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
Microcephalus			
742.1	Microcephalus	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
Q02	Microcephaly	Diagnosis	ICD-10-CM
Holoprosencephaly			
742.2	Congenital reduction deformities of brain	Diagnosis	ICD-9-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
Anophthalmia			
743.00	Unspecified clinical anophthalmos	Diagnosis	ICD-9-CM
743.10	Unspecified microphthalmos	Diagnosis	ICD-9-CM
743.11	Simple microphthalmos	Diagnosis	ICD-9-CM
743.12	Microphthalmos associated with other anomalies of eye and adnexa	Diagnosis	ICD-9-CM
Q11.1	Other anophthalmos	Diagnosis	ICD-10-CM
Q11.2	Microphthalmos	Diagnosis	ICD-10-CM
Cataracts			
743.2	Buphthalmos	Diagnosis	ICD-9-CM
743.20	Unspecified buphthalmos	Diagnosis	ICD-9-CM
743.21	Simple buphthalmos	Diagnosis	ICD-9-CM
743.22	Buphthalmos associated with other ocular anomaly	Diagnosis	ICD-9-CM
743.30	Unspecified congenital cataract	Diagnosis	ICD-9-CM
743.31	Congenital capsular and subcapsular cataract	Diagnosis	ICD-9-CM
743.32	Congenital cortical and zonular cataract	Diagnosis	ICD-9-CM
743.33	Congenital nuclear cataract	Diagnosis	ICD-9-CM
743.34	Congenital total and subtotal cataract	Diagnosis	ICD-9-CM
743.35	Congenital aphakia	Diagnosis	ICD-9-CM
743.36	Congenital anomalies of lens shape	Diagnosis	ICD-9-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM
Q12.2	Coloboma of lens	Diagnosis	ICD-10-CM
Q12.3	Congenital aphakia	Diagnosis	ICD-10-CM
Q12.4	Spherophakia	Diagnosis	ICD-10-CM
Q12.8	Other congenital lens malformations	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	Diagnosis	ICD-10-CM
Anotia			
744.01	Congenital absence of external ear causing impairment of hearing	Diagnosis	ICD-9-CM
744.23	Microtia	Diagnosis	ICD-9-CM
Q16.0	Congenital absence of (ear) auricle	Diagnosis	ICD-10-CM
Q17.2	Microtia	Diagnosis	ICD-10-CM
Severe Cardiac			
745.0	Bulbus cordis anomalies and anomalies of cardiac septal closure, common truncus	Diagnosis	ICD-9-CM
745.1	Transposition of great vessels	Diagnosis	ICD-9-CM
745.10	Complete transposition of great vessels	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
745.11	Transposition of great vessels, double outlet right ventricle	Diagnosis	ICD-9-CM
745.12	Corrected transposition of great vessels	Diagnosis	ICD-9-CM
745.19	Other transposition of great vessels	Diagnosis	ICD-9-CM
745.2	Tetralogy of Fallot	Diagnosis	ICD-9-CM
745.3	Bulbus cordis anomalies and anomalies of cardiac septal closure, common ventricle	Diagnosis	ICD-9-CM
745.4	Ventricular septal defect	Diagnosis	ICD-9-CM
745.6	Endocardial cushion defects	Diagnosis	ICD-9-CM
745.60	Unspecified type congenital endocardial cushion defect	Diagnosis	ICD-9-CM
745.61	Ostium primum defect	Diagnosis	ICD-9-CM
745.69	Other congenital endocardial cushion defect	Diagnosis	ICD-9-CM
745.7	Cor biloculare	Diagnosis	ICD-9-CM
746.00	Unspecified congenital pulmonary valve anomaly	Diagnosis	ICD-9-CM
746.01	Congenital atresia of pulmonary valve	Diagnosis	ICD-9-CM
746.1	Congenital tricuspid atresia and stenosis	Diagnosis	ICD-9-CM
746.2	Ebstein's anomaly	Diagnosis	ICD-9-CM
746.3	Congenital stenosis of aortic valve	Diagnosis	ICD-9-CM
746.7	Hypoplastic left heart syndrome	Diagnosis	ICD-9-CM
746.85	Congenital coronary artery anomaly	Diagnosis	ICD-9-CM
747.1	Coarctation of aorta	Diagnosis	ICD-9-CM
747.10	Coarctation of aorta (preductal) (postductal)	Diagnosis	ICD-9-CM
747.11	Congenital interruption of aortic arch	Diagnosis	ICD-9-CM
747.22	Congenital atresia and stenosis of aorta	Diagnosis	ICD-9-CM
747.41	Total congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
I27.83	Eisenmenger's syndrome	Diagnosis	ICD-10-CM
Q20.0	Common arterial trunk	Diagnosis	ICD-10-CM
Q20.1	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q20.2	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q20.3	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q20.4	Double inlet ventricle	Diagnosis	ICD-10-CM
Q20.5	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q20.6	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q20.8	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q21.0	Ventricular septal defect	Diagnosis	ICD-10-CM
Q21.2	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.3	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q22.0	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q22.3	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q22.4	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q22.5	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q22.6	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q22.8	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q22.9	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q23.0	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q23.4	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q24.5	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q25.1	Coarctation of aorta	Diagnosis	ICD-10-CM
Q25.21	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q25.29	Other atresia of aorta	Diagnosis	ICD-10-CM
Q25.3	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Pulmonary venous return/Anomalous coronary artery			
747.41	Total congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
747.42	Partial congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Other Cardiac			
745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure	Diagnosis	ICD-9-CM
745.9	Unspecified congenital defect of septal closure	Diagnosis	ICD-9-CM
747.42	Partial congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
759.3	Situs inversus	Diagnosis	ICD-9-CM
Q21.4	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q21.8	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q21.9	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.4	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q89.3	Situs inversus	Diagnosis	ICD-10-CM
Choanal atresia/stenosis			
748.0	Congenital choanal atresia	Diagnosis	ICD-9-CM
Q30.0	Choanal atresia	Diagnosis	ICD-10-CM
Cleft Lip			
749.0	Cleft palate	Diagnosis	ICD-9-CM
749.00	Unspecified cleft palate	Diagnosis	ICD-9-CM
749.01	Unilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.02	Unilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.03	Bilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.04	Bilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.1	Cleft lip	Diagnosis	ICD-9-CM
749.10	Unspecified cleft lip	Diagnosis	ICD-9-CM
749.11	Unilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.12	Unilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.13	Bilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.14	Bilateral cleft lip, incomplete	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
749.2	Cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.20	Unspecified cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.21	Unilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.22	Unilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.23	Bilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.24	Bilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.25	Other combinations of cleft palate with cleft lip	Diagnosis	ICD-9-CM
Q35.1	Cleft hard palate	Diagnosis	ICD-10-CM
Q35.3	Cleft soft palate	Diagnosis	ICD-10-CM
Q35.5	Cleft hard palate with cleft soft palate	Diagnosis	ICD-10-CM
Q35.7	Cleft uvula	Diagnosis	ICD-10-CM
Q35.9	Cleft palate, unspecified	Diagnosis	ICD-10-CM
Q36.0	Cleft lip, bilateral	Diagnosis	ICD-10-CM
Q36.1	Cleft lip, median	Diagnosis	ICD-10-CM
Q36.9	Cleft lip, unilateral	Diagnosis	ICD-10-CM
Q37.0	Cleft hard palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.1	Cleft hard palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.2	Cleft soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.3	Cleft soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.4	Cleft hard and soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.5	Cleft hard and soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.8	Unspecified cleft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.9	Unspecified cleft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Biliary Atresia			
751.61	Congenital biliary atresia	Diagnosis	ICD-9-CM
Q44.2	Atresia of bile ducts	Diagnosis	ICD-10-CM
Q44.3	Congenital stenosis and stricture of bile ducts	Diagnosis	ICD-10-CM
Intestinal Atresia			
751.1	Congenital atresia and stenosis of small intestine	Diagnosis	ICD-9-CM
751.2	Congenital atresia and stenosis of large intestine, rectum, and anal canal	Diagnosis	ICD-9-CM
Q41.0	Congenital absence, atresia and stenosis of duodenum	Diagnosis	ICD-10-CM
Q41.1	Congenital absence, atresia and stenosis of jejunum	Diagnosis	ICD-10-CM
Q41.2	Congenital absence, atresia and stenosis of ileum	Diagnosis	ICD-10-CM
Q41.8	Congenital absence, atresia and stenosis of other specified parts of small intestine	Diagnosis	ICD-10-CM
Q41.9	Congenital absence, atresia and stenosis of small intestine, part unspecified	Diagnosis	ICD-10-CM
Q42.0	Congenital absence, atresia and stenosis of rectum with fistula	Diagnosis	ICD-10-CM
Q42.1	Congenital absence, atresia and stenosis of rectum without fistula	Diagnosis	ICD-10-CM
Q42.2	Congenital absence, atresia and stenosis of anus with fistula	Diagnosis	ICD-10-CM
Q42.3	Congenital absence, atresia and stenosis of anus without fistula	Diagnosis	ICD-10-CM
Q42.8	Congenital absence, atresia and stenosis of other parts of large intestine	Diagnosis	ICD-10-CM
Q42.9	Congenital absence, atresia and stenosis of large intestine, part unspecified	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
Esophageal Atresia			
750.3	Congenital tracheoesophageal fistula, esophageal atresia and stenosis	Diagnosis	ICD-9-CM
Q39.0	Atresia of esophagus without fistula	Diagnosis	ICD-10-CM
Q39.1	Atresia of esophagus with tracheo-esophageal fistula	Diagnosis	ICD-10-CM
Q39.2	Congenital tracheo-esophageal fistula without atresia	Diagnosis	ICD-10-CM
Q39.3	Congenital stenosis and stricture of esophagus	Diagnosis	ICD-10-CM
Q39.4	Esophageal web	Diagnosis	ICD-10-CM
Pyloric Stenosis			
750.5	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-9-CM
Q40.0	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-10-CM
Exstrophy			
753.5	Exstrophy of urinary bladder	Diagnosis	ICD-9-CM
Q64.10	Exstrophy of urinary bladder, unspecified	Diagnosis	ICD-10-CM
Q64.11	Supravesical fissure of urinary bladder	Diagnosis	ICD-10-CM
Q64.12	Cloacal exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q64.19	Other exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Hypospadias			
752.61	Hypospadias	Diagnosis	ICD-9-CM
Q54.0	Hypospadias, balanic	Diagnosis	ICD-10-CM
Q54.1	Hypospadias, penile	Diagnosis	ICD-10-CM
Q54.2	Hypospadias, penoscrotal	Diagnosis	ICD-10-CM
Q54.3	Hypospadias, perineal	Diagnosis	ICD-10-CM
Q54.8	Other hypospadias	Diagnosis	ICD-10-CM
Q54.9	Hypospadias, unspecified	Diagnosis	ICD-10-CM
Renal Dysplasia			
753.15	Congenital renal dysplasia	Diagnosis	ICD-9-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Renal Agenesis			
753.0	Congenital renal agenesis and dysgenesis	Diagnosis	ICD-9-CM
Q60.0	Renal agenesis, unilateral	Diagnosis	ICD-10-CM
Q60.1	Renal agenesis, bilateral	Diagnosis	ICD-10-CM
Q60.2	Renal agenesis, unspecified	Diagnosis	ICD-10-CM
Q60.3	Renal hypoplasia, unilateral	Diagnosis	ICD-10-CM
Q60.4	Renal hypoplasia, bilateral	Diagnosis	ICD-10-CM
Q60.5	Renal hypoplasia, unspecified	Diagnosis	ICD-10-CM
Q60.6	Potter's syndrome	Diagnosis	ICD-10-CM
Hydronephrosis			
753.2	Congenital obstructive defects of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.20	Unspecified obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.21	Congenital obstruction of ureteropelvic junction	Diagnosis	ICD-9-CM
753.22	Congenital obstruction of ureterovesical junction	Diagnosis	ICD-9-CM
753.23	Congenital ureterocele	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
753.29	Other obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
Q62.0	Congenital hydronephrosis	Diagnosis	ICD-10-CM
Q62.10	Congenital occlusion of ureter, unspecified	Diagnosis	ICD-10-CM
Q62.11	Congenital occlusion of ureteropelvic junction	Diagnosis	ICD-10-CM
Q62.12	Congenital occlusion of ureterovesical orifice	Diagnosis	ICD-10-CM
Q62.2	Congenital megaureter	Diagnosis	ICD-10-CM
Q62.31	Congenital ureterocele, orthotopic	Diagnosis	ICD-10-CM
Q62.32	Cecoureterocele	Diagnosis	ICD-10-CM
Q62.39	Other obstructive defects of renal pelvis and ureter	Diagnosis	ICD-10-CM
Posterior Urethral			
756.71	Prune belly syndrome	Diagnosis	ICD-9-CM
Q79.4	Prune belly syndrome	Diagnosis	ICD-10-CM
Q79.51	Congenital hernia of bladder	Diagnosis	ICD-10-CM
Gastroschisis			
756.72	Omphalocele	Diagnosis	ICD-9-CM
756.73	Gastroschisis	Diagnosis	ICD-9-CM
756.79	Other congenital anomalies of abdominal wall	Diagnosis	ICD-9-CM
Q79.2	Exomphalos	Diagnosis	ICD-10-CM
Q79.3	Gastroschisis	Diagnosis	ICD-10-CM
Q79.59	Other congenital malformations of abdominal wall	Diagnosis	ICD-10-CM
Diaphragmatic Hernia			
756.6	Congenital anomaly of diaphragm	Diagnosis	ICD-9-CM
Q79.0	Congenital diaphragmatic hernia	Diagnosis	ICD-10-CM
Q79.1	Other congenital malformations of diaphragm	Diagnosis	ICD-10-CM
Limb Deficiency			
755.2	Congenital reduction deformities of upper limb	Diagnosis	ICD-9-CM
755.3	Congenital reduction deformities of lower limb	Diagnosis	ICD-9-CM
755.4	Congenital reduction deformities, unspecified limb	Diagnosis	ICD-9-CM
755.5	Other congenital anomalies of upper limb, including shoulder girdle	Diagnosis	ICD-9-CM
755.6	Other congenital anomaly of lower limb, including pelvic girdle	Diagnosis	ICD-9-CM
755.8	Other specified congenital anomalies of unspecified limb	Diagnosis	ICD-9-CM
755.9	Unspecified congenital anomaly of unspecified limb	Diagnosis	ICD-9-CM
Q73.0	Congenital absence of unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.1	Phocomelia, unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.8	Other reduction defects of unspecified limb(s)	Diagnosis	ICD-10-CM
Q74.8	Other specified congenital malformations of limb(s)	Diagnosis	ICD-10-CM
Q74.9	Unspecified congenital malformation of limb(s)	Diagnosis	ICD-10-CM
Sacral Agenesis			
756.13	Congenital absence of vertebra	Diagnosis	ICD-9-CM
Q76.49	Other congenital malformations of spine, not associated with scoliosis	Diagnosis	ICD-10-CM
Neonatal Abstinence			

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
760.72	Noxious influences affecting fetus or newborn via placenta or breast milk, narcotics	Diagnosis	ICD-9-CM
760.73	Noxious influences affecting fetus or newborn via placenta or breast milk, hallucinogenic agents	Diagnosis	ICD-9-CM
779.5	Drug withdrawal syndrome in newborn	Diagnosis	ICD-9-CM
P04.49	Newborn affected by maternal use of other drugs of addiction	Diagnosis	ICD-10-CM
P96.1	Neonatal withdrawal symptoms from maternal use of drugs of addiction	Diagnosis	ICD-10-CM
Low Birth Weight			
765.00	Extreme fetal immaturity, unspecified (weight)	Diagnosis	ICD-9-CM
765.01	Extreme fetal immaturity, less than 500 grams	Diagnosis	ICD-9-CM
765.02	Extreme fetal immaturity, 500-749 grams	Diagnosis	ICD-9-CM
765.03	Extreme fetal immaturity, 750-999 grams	Diagnosis	ICD-9-CM
765.04	Extreme fetal immaturity, 1,000-1,249 grams	Diagnosis	ICD-9-CM
765.05	Extreme fetal immaturity, 1,250-1,499 grams	Diagnosis	ICD-9-CM
765.06	Extreme fetal immaturity, 1,500-1,749 grams	Diagnosis	ICD-9-CM
765.07	Extreme fetal immaturity, 1,750-1,999 grams	Diagnosis	ICD-9-CM
765.08	Extreme fetal immaturity, 2,000-2,499 grams	Diagnosis	ICD-9-CM
765.10	Other preterm infants, unspecified (weight)	Diagnosis	ICD-9-CM
765.11	Other preterm infants, less than 500 grams	Diagnosis	ICD-9-CM
765.12	Other preterm infants, 500-749 grams	Diagnosis	ICD-9-CM
765.13	Other preterm infants, 750-999 grams	Diagnosis	ICD-9-CM
765.14	Other preterm infants, 1,000-1,249 grams	Diagnosis	ICD-9-CM
765.15	Other preterm infants, 1,250-1,499 grams	Diagnosis	ICD-9-CM
765.16	Other preterm infants, 1,500-1,749 grams	Diagnosis	ICD-9-CM
765.17	Other preterm infants, 1,750-1,999 grams	Diagnosis	ICD-9-CM
765.18	Other preterm infants, 2,000-2,499 grams	Diagnosis	ICD-9-CM
P07	Disorders of newborn related to short gestation and low birth weight, not elsewhere classified	Diagnosis	ICD-10-CM
P07.0	Extremely low birth weight newborn	Diagnosis	ICD-10-CM
P07.00	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.01	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P07.02	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P07.03	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P07.1	Other low birth weight newborn	Diagnosis	ICD-10-CM
P07.10	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.14	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P07.15	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P07.16	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P07.17	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P07.18	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
V21.30	Low birth weight status, unspecified	Diagnosis	ICD-9-CM
V21.31	Low birth weight status, less than 500 grams	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
V21.32	Low birth weight status, 500-999 grams	Diagnosis	ICD-9-CM
V21.33	Low birth weight status, 1000-1499 grams	Diagnosis	ICD-9-CM
V21.34	Low birth weight status, 1500-1999 grams	Diagnosis	ICD-9-CM
V21.35	Low birth weight status, 2000-2500 grams	Diagnosis	ICD-9-CM
Respiratory Distress Syndrome			
769	Respiratory distress syndrome in newborn	Diagnosis	ICD-9-CM
P22.0	Respiratory distress syndrome of newborn	Diagnosis	ICD-10-CM
Asthma			
493.00	Extrinsic asthma, unspecified	Diagnosis	ICD-9-CM
493.01	Extrinsic asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.02	Extrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.10	Intrinsic asthma, unspecified	Diagnosis	ICD-9-CM
493.11	Intrinsic asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.12	Intrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.20	Chronic obstructive asthma, unspecified	Diagnosis	ICD-9-CM
493.21	Chronic obstructive asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.22	Chronic obstructive asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.81	Exercise induced bronchospasm	Diagnosis	ICD-9-CM
493.82	Cough variant asthma	Diagnosis	ICD-9-CM
493.90	Asthma, unspecified, unspecified status	Diagnosis	ICD-9-CM
493.91	Asthma, unspecified with status asthmaticus	Diagnosis	ICD-9-CM
493.92	Asthma, unspecified, with (acute) exacerbation	Diagnosis	ICD-9-CM
J45.20	Mild intermittent asthma, uncomplicated	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
J45.30	Mild persistent 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
J45.40	Moderate 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
J45.50	Severe persistent asthma, uncomplicated	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
J45.901	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
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
Tetanus Diphtheria Pertussis Vaccine			
00005196031	diphtheria,pertussis,tetanus,Haemophilus B conjugate vaccine	RX	ND

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
49281040010	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281040015	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281040020	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281040058	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281040088	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281040089	diphtheria,pertussis(acellular),tetanus vaccine/PF	RX	ND
49281051005	diphtheria,pertussis(acell),tetanus,polio/Haemophilus B/PF	RX	ND
49281051105	diphtheria,pertussis(acell),tetanus,polio/Haemophilus B/PF	RX	ND
54569386800	diphtheria,pertussis,tetanus,Haemophilus B conjugate vaccine	RX	ND
54569638600	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
54868349000	diphtheria,pertussis,tetanus,Haemophilus B conjugate vaccine	RX	ND
58160081111	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081141	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081143	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081146	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081151	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081152	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160084111	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
58160084146	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
58160084201	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084205	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084211	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084232	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084234	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084243	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084246	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084251	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
58160084252	diphtheria,pertussis(acellular),tetanus vaccine	RX	ND
90696	Diphtheria, tetanus toxoids, acellular pertussis vaccine and inactivated poliovirus vaccine (DTaP-IPV), when administered to children 4 through 6 years of age, for intramuscular use	Procedure	CPT-4
90697	Diphtheria, tetanus toxoids, acellular pertussis vaccine, inactivated poliovirus vaccine, Haemophilus influenzae type b PRP-OMP conjugate vaccine, and hepatitis B vaccine (DTaP-IPV-Hib-HepB), for intramuscular use	Procedure	CPT-4
90698	Diphtheria, tetanus toxoids, acellular pertussis vaccine, Haemophilus influenzae type b, and inactivated poliovirus vaccine, (DTaP-IPV/Hib), for intramuscular use	Procedure	CPT-4
90700	Diphtheria, tetanus toxoids, and acellular pertussis vaccine (DTaP), when administered to individuals younger than 7 years, for intramuscular use	Procedure	CPT-4
90701	Diphtheria, tetanus toxoids, and whole cell pertussis vaccine (DTP), for intramuscular use	Procedure	CPT-4
90702	Diphtheria and tetanus toxoids adsorbed (DT) when administered to individuals younger than 7 years, for intramuscular use	Procedure	CPT-4

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Code	Description	Code Category	Code Type
90714	Tetanus and diphtheria toxoids adsorbed (Td), preservative free, when administered to individuals 7 years or older, for intramuscular use	Procedure	CPT-4
90715	Tetanus, diphtheria toxoids and acellular pertussis vaccine (Tdap), when administered to individuals 7 years or older, for intramuscular use	Procedure	CPT-4
90718	Tetanus and diphtheria toxoids (Td) adsorbed when administered to individuals 7 years or older, for intramuscular use	Procedure	CPT-4
90719	Diphtheria toxoid, for intramuscular use	Procedure	CPT-4
90720	Diphtheria, tetanus toxoids, and whole cell pertussis vaccine and Haemophilus influenzae b vaccine (DTwP-Hib), for intramuscular use	Procedure	CPT-4
90721	Diphtheria, tetanus toxoids, and acellular pertussis vaccine and Haemophilus influenzae b vaccine (DTaP/Hib), for intramuscular use	Procedure	CPT-4
90723	Diphtheria, tetanus toxoids, acellular pertussis vaccine, hepatitis B, and inactivated poliovirus vaccine (DTaP-HepB-IPV), for intramuscular use	Procedure	CPT-4

Hepatitis A Vaccine

00006409501	hepatitis A virus vaccine/PF	RX	ND
00006409502	hepatitis A virus vaccine/PF	RX	ND
00006409509	hepatitis A virus vaccine/PF	RX	ND
00006409601	hepatitis A virus vaccine/PF	RX	ND
00006409602	hepatitis A virus vaccine/PF	RX	ND
00006409606	hepatitis A virus vaccine/PF	RX	ND
00006409609	hepatitis A virus vaccine/PF	RX	ND
00006409631	hepatitis A virus vaccine/PF	RX	ND
00006483100	hepatitis A virus vaccine/PF	RX	ND
00006483101	hepatitis A virus vaccine/PF	RX	ND
00006483138	hepatitis A virus vaccine	RX	ND
00006483141	hepatitis A virus vaccine/PF	RX	ND
00006484100	hepatitis A virus vaccine/PF	RX	ND
00006484101	hepatitis A virus vaccine/PF	RX	ND
00006484138	hepatitis A virus vaccine	RX	ND
00006484141	hepatitis A virus vaccine/PF	RX	ND
00006484400	hepatitis A virus vaccine	RX	ND
00006484438	hepatitis A virus vaccine	RX	ND
00006484500	hepatitis A virus vaccine	RX	ND
00006484538	hepatitis A virus vaccine	RX	ND
49999041201	hepatitis A virus vaccine	RX	ND
54569398700	hepatitis A virus vaccine	RX	ND
54569406800	hepatitis A virus vaccine	RX	ND
54569435100	hepatitis A virus vaccine	RX	ND
54569446900	hepatitis A virus vaccine	RX	ND
54569513100	hepatitis A virus vaccine	RX	ND
54569526800	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
54569529200	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND

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Code	Description	Code Category	Code Type
54569536500	hepatitis A virus vaccine	RX	ND
54569537100	hepatitis A virus vaccine	RX	ND
54569557800	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
54569563100	hepatitis A virus vaccine/PF	RX	ND
54569563200	hepatitis A virus vaccine/PF	RX	ND
54569588800	hepatitis A virus vaccine/PF	RX	ND
54868405600	hepatitis A virus vaccine	RX	ND
54868405601	hepatitis A virus vaccine	RX	ND
54868405602	hepatitis A virus vaccine	RX	ND
58160081501	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081511	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081532	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081543	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081546	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081548	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081552	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160082501	hepatitis A virus vaccine/PF	RX	ND
58160082511	hepatitis A virus vaccine/PF	RX	ND
58160082543	hepatitis A virus vaccine/PF	RX	ND
58160082546	hepatitis A virus vaccine/PF	RX	ND
58160082551	hepatitis A virus vaccine/PF	RX	ND
58160082552	hepatitis A virus vaccine/PF	RX	ND
58160082601	hepatitis A virus vaccine/PF	RX	ND
58160082611	hepatitis A virus vaccine/PF	RX	ND
58160082632	hepatitis A virus vaccine/PF	RX	ND
58160082643	hepatitis A virus vaccine/PF	RX	ND
58160082646	hepatitis A virus vaccine/PF	RX	ND
58160082648	hepatitis A virus vaccine/PF	RX	ND
58160082652	hepatitis A virus vaccine/PF	RX	ND
58160083501	hepatitis A virus vaccine	RX	ND
58160083502	hepatitis A virus vaccine	RX	ND
58160083505	hepatitis A virus vaccine	RX	ND
58160083507	hepatitis A virus vaccine	RX	ND
58160083511	hepatitis A virus vaccine	RX	ND
58160083532	hepatitis A virus vaccine	RX	ND
58160083535	hepatitis A virus vaccine	RX	ND
58160083541	hepatitis A virus vaccine	RX	ND
58160083546	hepatitis A virus vaccine	RX	ND
58160083701	hepatitis A virus vaccine	RX	ND
58160083702	hepatitis A virus vaccine	RX	ND
58160083705	hepatitis A virus vaccine	RX	ND
58160083711	hepatitis A virus vaccine	RX	ND

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Code	Description	Code Category	Code Type
58160083726	hepatitis A virus vaccine	RX	ND
58160083735	hepatitis A virus vaccine	RX	ND
58160083746	hepatitis A virus vaccine	RX	ND
58160083750	hepatitis A virus vaccine	RX	ND
58160083756	hepatitis A virus vaccine	RX	ND
58160083758	hepatitis A virus vaccine	RX	ND
58160085001	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085011	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085035	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085046	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
90632	Hepatitis A vaccine (HepA), adult dosage, for intramuscular use	Procedure	CPT-4
90633	Hepatitis A vaccine (HepA), pediatric/adolescent dosage-2 dose schedule, for intramuscular use	Procedure	CPT-4
90634	Hepatitis A vaccine (HepA), pediatric/adolescent dosage-3 dose schedule, for intramuscular use	Procedure	CPT-4
90636	Hepatitis A and hepatitis B vaccine (HepA-HepB), adult dosage, for intramuscular use	Procedure	CPT-4
Influenza Virus Vaccine			
00008098101	influenza virus tri-split	RX	ND
00008098102	influenza virus tri-split	RX	ND
00008098135	influenza virus tri-split	RX	ND
00008098145	influenza virus tri-split	RX	ND
00008098201	influenza virus tri-split	RX	ND
00008098202	influenza virus tri-split	RX	ND
00008098501	influenza virus tri-split	RX	ND
00008098502	influenza virus tri-split	RX	ND
00008098601	influenza virus tri-split	RX	ND
00008098701	influenza virus tri-split	RX	ND
19515081641	influenza virus vaccine quadrivalent 2020-2021(6 mos and up)/PF	RX	ND
19515081652	influenza virus vaccine quadrivalent 2020-2021(6 mos and up)/PF	RX	ND
19515088307	Influenza Trivalent-Split 2006-2007 Vaccine	RX	ND
19515088407	influenza tv-s 07-08 vaccine	RX	ND
19515088507	influenza tv-s 08-09 vaccine	RX	ND
19515088607	Influenza Virus Vaccine Tri-Split 2009-2010	RX	ND
19515088707	Influenza Virus Vaccine Tri-Split 2010-2011	RX	ND
19515088807	influenza virus vaccine tv split 2011-2012 (18 yr & older)	RX	ND
19515088902	influenza virus vaccine tv split 2012-2013 (18 yr & older)	RX	ND
19515088907	influenza virus vaccine tv split 2012-2013 (18 yr & older)	RX	ND
19515089002	influenza virus vaccine tvs 2013-2014 (36 mos and older)	RX	ND
19515089007	influenza virus vaccine tvs 2013-2014 (36 mos and older)	RX	ND
19515089101	influenza virus vaccine quad vs 2014-2015 (36 mos and older)	RX	ND
19515089111	influenza virus vaccine quad vs 2014-2015 (36 mos and older)	RX	ND

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Code	Description	Code Category	Code Type
19515089241	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
19515089252	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
19515089302	influenza virus vaccine trivalent 2014-15 (36 mos and older)	RX	ND
19515089307	influenza virus vaccine trivalent 2014-15 (36 mos and older)	RX	ND
19515089441	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
19515089452	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
19515089501	influenza virus vaccine quad vs 2013-2014 (36 mos and older)	RX	ND
19515089511	influenza virus vaccine quad vs 2013-2014 (36 mos and older)	RX	ND
19515089601	influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	RX	ND
19515089611	influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	RX	ND
19515089701	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
19515089711	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
19515089801	influenza virus vaccine quadrival 2015-2016 (36 mos, older)	RX	ND
19515089811	influenza virus vaccine quadrival 2015-2016 (36 mos, older)	RX	ND
19515090001	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND
19515090011	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND
19515090301	influenza virus vaccine qvalsplitt 2016-2017(6 mos and older)	RX	ND
19515090311	influenza virus vaccine qvalsplitt 2016-2017(6 mos and older)	RX	ND
19515090641	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
19515090652	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
19515090841	influenza virus vaccine qvalsplitt 2016-2017(6 mos and up)/PF	RX	ND
19515090852	influenza virus vaccine qvalsplitt 2016-2017(6 mos and up)/PF	RX	ND
19515090941	influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	RX	ND
19515090952	influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	RX	ND
19515091241	influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	RX	ND
19515091252	influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	RX	ND
19650010101	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
19650010110	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
19650010301	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
19650010310	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
21695063205	influenza tv-s 07-08 vaccine	RX	ND
33332000701	Influenza TV-S 07-08 Vaccine/PF	RX	ND
33332000801	Influenza TV-S 08-09 Vaccine/PF	RX	ND
33332000901	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
33332001001	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
33332001101	influenza virus vaccine tv split 2011-2012 (9 yr & older)/PF	RX	ND
33332001201	influenza virus vaccine tv split 2012-2013 (5 yr & older)/PF	RX	ND
33332001202	influenza virus vaccine tv split 2012-2013 (5 yr & older)/PF	RX	ND
33332001301	influenza virus vaccine tv split 2013-14 (5 yr and older)/PF	RX	ND
33332001302	influenza virus vaccine tv split 2013-14 (5 yr and older)/PF	RX	ND
33332001401	influenza virus vaccine trivalnt 2014-2015 (5 yr, older)/PF	RX	ND
33332001402	influenza virus vaccine trivalnt 2014-2015 (5 yr, older)/PF	RX	ND

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Code	Description	Code Category	Code Type
33332001501	influenza virus vaccine trivalent 2015-2016 (5 yr, older)/PF	RX	ND
33332001502	influenza virus vaccine trivalent 2015-2016 (5 yr, older)/PF	RX	ND
33332001601	influenza virus vaccine trivalent 2016-2017 (5 years up)/PF	RX	ND
33332001602	influenza virus vaccine trivalent 2016-2017 (5 years up)/PF	RX	ND
33332001701	influenza virus vaccine trivalent 2017-2018 (5 years up)/PF	RX	ND
33332001702	influenza virus vaccine trivalent 2017-2018 (5 years up)/PF	RX	ND
33332001801	influenza virus vaccine tvs 2018-2019(6 months and older)/PF	RX	ND
33332001802	influenza virus vaccine tvs 2018-2019(6 months and older)/PF	RX	ND
33332010710	influenza tv-s 07-08 vaccine	RX	ND
33332010810	influenza tv-s 08-09 vaccine	RX	ND
33332010910	Influenza Virus Vaccine Tri-Split 2009-2010	RX	ND
33332011110	influenza virus vaccine tv split 2011-2012 (9 yr & older)	RX	ND
33332011210	influenza virus vaccine tv split 2012-2013 (5 yr & older)	RX	ND
33332011310	influenza virus vaccine tv split 2013-2014 (5 yr and older)	RX	ND
33332011410	influenza virus vaccine trivalent 2014-2015 (5 yr and older)	RX	ND
33332011411	influenza virus vaccine trivalent 2014-2015 (5 yr and older)	RX	ND
33332011510	influenza virus vaccine trivalent 2015-2016 (5 yr and older)	RX	ND
33332011511	influenza virus vaccine trivalent 2015-2016 (5 yr and older)	RX	ND
33332011610	influenza virus vaccine trivalent 2016-2017 (5 yr and older)	RX	ND
33332011611	influenza virus vaccine trivalent 2016-2017 (5 yr and older)	RX	ND
33332011710	influenza virus vaccine trivalent 2017-2018 (5 yr and older)	RX	ND
33332011711	influenza virus vaccine trivalent 2017-2018 (5 yr and older)	RX	ND
33332011810	influenza virus vaccine trivalent 2018-19 (6 mos and older)	RX	ND
33332011811	influenza virus vaccine trivalent 2018-19 (6 mos and older)	RX	ND
33332021920	influenza virus vaccine quadrivalent 2019-20 (6 mos-35 mos)/PF	RX	ND
33332021921	influenza virus vaccine quadrivalent 2019-20 (6 mos-35 mos)/PF	RX	ND
33332022020	influenza virus vaccine quadrivalent 2020-21 (6 mos-35 mos)/PF	RX	ND
33332022021	influenza virus vaccine quadrivalent 2020-21 (6 mos-35 mos)/PF	RX	ND
33332031601	influenza virus vaccine quadrivalent 2016-17(18yr and up)/PF	RX	ND
33332031602	influenza virus vaccine quadrivalent 2016-17(18yr and up)/PF	RX	ND
33332031701	influenza virus vaccine quadrivalent 2017-18(5 yr and up)/PF	RX	ND
33332031702	influenza virus vaccine quadrivalent 2017-18(5 yr and up)/PF	RX	ND
33332031801	influenza virus vaccine quadrivalent 2018-2019(6 mos and up)/PF	RX	ND
33332031802	influenza virus vaccine quadrivalent 2018-2019(6 mos and up)/PF	RX	ND
33332031901	influenza virus vaccine quadrivalent 2019-20 (36 mos up)/PF	RX	ND
33332031902	influenza virus vaccine quadrivalent 2019-20 (36 mos up)/PF	RX	ND
33332032001	influenza virus vaccine quadrivalent 2020-21 (36 mos up)/PF	RX	ND
33332032002	influenza virus vaccine quadrivalent 2020-21 (36 mos up)/PF	RX	ND
33332041610	influenza virus vaccine quadrivalent 2016-17(18 year and up)	RX	ND
33332041611	influenza virus vaccine quadrivalent 2016-17(18 year and up)	RX	ND
33332041710	influenza virus vaccine quadrivalent 2017-18 (5 year and up)	RX	ND
33332041711	influenza virus vaccine quadrivalent 2017-18 (5 year and up)	RX	ND

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Code	Description	Code Category	Code Type
33332041810	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND
33332041811	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND
33332041910	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
33332041911	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
33332042010	influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	RX	ND
33332042011	influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	RX	ND
33332051901	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
33332062910	Influenza A (H1N1) Virus Vaccine Monovalent 2009	RX	ND
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
42874001201	influenza virus vaccine tv 2012-2013 (18 to 49 yrs)recomb/PF	RX	ND
42874001210	influenza virus vaccine tv 2012-2013 (18 to 49 yrs)recomb/PF	RX	ND
42874001301	influenza virus vaccine tv 2013-2014 (18 to 49 yrs)recomb/PF	RX	ND
42874001310	influenza virus vaccine tv 2013-2014 (18 to 49 yrs)recomb/PF	RX	ND
42874001401	influenza virus vaccine tv 2014-2015(18 yrs, older)recomb/PF	RX	ND
42874001410	influenza virus vaccine tv 2014-2015(18 yrs, older)recomb/PF	RX	ND
42874001501	influenza virus vaccine tv 2015-2016(18 yrs, older)recomb/PF	RX	ND
42874001510	influenza virus vaccine tv 2015-2016(18 yrs, older)recomb/PF	RX	ND
42874001601	influenza virus vaccine tv 2016-17(18 yrs and older)rcmb/PF	RX	ND
42874001610	influenza virus vaccine tv 2016-17(18 yrs and older)rcmb/PF	RX	ND
42874001701	influenza virus vaccine tv 2017-18(18 yrs and older)rcmb/PF	RX	ND
42874001710	influenza virus vaccine tv 2017-18(18 yrs and older)rcmb/PF	RX	ND
42874011701	influenza virus vaccine qv 2017-18(18 yrs and older)rcmb/PF	RX	ND
42874011710	influenza virus vaccine qv 2017-18(18 yrs and older)rcmb/PF	RX	ND
46028010801	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
46028011001	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
49281000510	Influenza TV-S 05-06 Vaccine/PF	RX	ND
49281000525	Influenza TV-S 05-06 Vaccine/PF	RX	ND
49281000550	Influenza TV-S 05-06 Vaccine/PF	RX	ND
49281000610	Influenza TV-S 06-07 Vaccine/PF	RX	ND
49281000625	Influenza TV-S 06-07 Vaccine/PF	RX	ND
49281000650	Influenza TV-S 06-07 Vaccine/PF	RX	ND
49281000710	Influenza TV-S 07-08 Vaccine/PF	RX	ND
49281000725	Influenza TV-S 07-08 Vaccine/PF	RX	ND
49281000750	Influenza TV-S 07-08 Vaccine/PF	RX	ND
49281000810	Influenza TV-S 08-09 Vaccine/PF	RX	ND
49281000825	Influenza TV-S 08-09 Vaccine/PF	RX	ND
49281000850	Influenza TV-S 08-09 Vaccine/PF	RX	ND
49281000910	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
49281000925	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
49281000950	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
49281001010	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND

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Code	Description	Code Category	Code Type
49281001025	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
49281001050	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
49281001110	influenza virus vaccine tv-sp 2011-12 (36 mos and older)/PF	RX	ND
49281001150	influenza virus vaccine tv-sp 2011-12 (36 mos and older)/PF	RX	ND
49281001210	influenza virus vaccine tvs 2012-2013 (36 mos and older)/PF	RX	ND
49281001250	influenza virus vaccine tvs 2012-2013 (36 mos and older)/PF	RX	ND
49281001310	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
49281001350	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
49281001358	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
49281001388	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
49281001450	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
49281001488	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
49281011125	influenza virus vaccine 2011-2012 (6 mos-35 mos)/PF	RX	ND
49281011225	influenza virus vaccine 2012-2013 (6 mos-35 mos)/PF	RX	ND
49281011300	influenza virus vaccine tvs 2013-2014 (6 mos-35 mos)/PF	RX	ND
49281011325	influenza virus vaccine tvs 2013-2014 (6 mos-35 mos)/PF	RX	ND
49281012065	influenza virus vaccine quadrival split 2020-21(65 yr up)/PF	RX	ND
49281012088	influenza virus vaccine quadrival split 2020-21(65 yr up)/PF	RX	ND
49281036110	influenza virus tri-whole	RX	ND
49281036211	influenza virus tri-split	RX	ND
49281036215	influenza virus tri-split	RX	ND
49281036310	influenza virus tri-whole	RX	ND
49281036411	influenza virus tri-split	RX	ND
49281036415	influenza virus tri-split	RX	ND
49281036510	influenza virus tri-whole	RX	ND
49281036611	influenza virus tri-split	RX	ND
49281036615	influenza virus tri-split	RX	ND
49281036811	influenza virus tri-split	RX	ND
49281036815	influenza virus tri-split	RX	ND
49281036925	influenza virus tri-split 2002	RX	ND
49281037011	influenza virus tri-split	RX	ND
49281037015	influenza virus tri-split	RX	ND
49281037125	influenza virus tri-split 2003	RX	ND
49281037211	influenza virus tri-split 2003	RX	ND
49281037215	influenza virus tri-split 2003	RX	ND
49281037325	influenza virus tri-split 2004	RX	ND
49281037411	influenza virus tri-split 2004	RX	ND
49281037415	influenza virus tri-split 2004	RX	ND
49281037615	influenza tv-s 05-06 vaccine	RX	ND
49281037815	Influenza Trivalent-Split 2006-2007 Vaccine	RX	ND
49281038015	influenza tv-s 07-08 vaccine	RX	ND
49281038215	influenza tv-s 08-09 vaccine	RX	ND

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Code	Description	Code Category	Code Type
49281038415	Influenza Virus Vaccine Tri-Split 2009-2010	RX	ND
49281038565	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
49281038615	Influenza Virus Vaccine Tri-Split 2010-2011	RX	ND
49281038765	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
49281038815	influenza virus vaccine tv split 2011-2012 (6 mos and older)	RX	ND
49281038965	Influenza Virus Vaccine Trivalent-Split 2011-2012/PF	RX	ND
49281039015	influenza virus vaccine tv split 2012-2013 (6 mos and older)	RX	ND
49281039165	influenza virus vaccine trivalent-split 2012-2013 (65yr+)/PF	RX	ND
49281039215	influenza virus vaccine tri-split 2013-14 (6 mos and older)	RX	ND
49281039278	influenza virus vaccine tri-split 2013-14 (6 mos and older)	RX	ND
49281039365	influenza virus vaccine tvs 2013-2014 (65 yr and up)/PF	RX	ND
49281039388	influenza virus vaccine tvs 2013-2014 (65 yr and up)/PF	RX	ND
49281039415	influenza virus vaccine trivalent 2014-15 (6 mos and older)	RX	ND
49281039478	influenza virus vaccine trivalent 2014-15 (6 mos and older)	RX	ND
49281039565	influenza virus vaccine trivalent 2014-2015 (65 yr,older)/PF	RX	ND
49281039588	influenza virus vaccine trivalent 2014-2015 (65 yr,older)/PF	RX	ND
49281039615	influenza virus vaccine trivalent 2015-16 (6 mos and older)	RX	ND
49281039678	influenza virus vaccine trivalent 2015-16 (6 mos and older)	RX	ND
49281039765	influenza virus vaccine trivalent split 2015-16(65 yr,up)/PF	RX	ND
49281039788	influenza virus vaccine trivalent split 2015-16(65 yr,up)/PF	RX	ND
49281039965	influenza virus vaccine trival split 2016-2017(65 yr up)/PF	RX	ND
49281039988	influenza virus vaccine trival split 2016-2017(65 yr up)/PF	RX	ND
49281040165	influenza virus vaccine trival split 2017-2018(65 yr up)/PF	RX	ND
49281040188	influenza virus vaccine trival split 2017-2018(65 yr up)/PF	RX	ND
49281040365	influenza virus vaccine trival split 2018-2019(65 yr up)/PF	RX	ND
49281040388	influenza virus vaccine trival split 2018-2019(65 yr up)/PF	RX	ND
49281040565	influenza virus vaccine trival split 2019-2020(65 yr up)/PF	RX	ND
49281040588	influenza virus vaccine trival split 2019-2020(65 yr up)/PF	RX	ND
49281041310	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
49281041350	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
49281041358	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
49281041388	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
49281041410	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
49281041450	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
49281041458	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
49281041488	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
49281041510	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
49281041550	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
49281041558	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
49281041588	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
49281041610	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND
49281041650	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND

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Code	Description	Code Category	Code Type
49281041658	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND
49281041688	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND
49281041710	influenza virus vaccine quadrivalent 2017-18 (36 mos up)/PF	RX	ND
49281041750	influenza virus vaccine quadrivalent 2017-18 (36 mos up)/PF	RX	ND
49281041758	influenza virus vaccine quadrivalent 2017-18 (36 mos up)/PF	RX	ND
49281041788	influenza virus vaccine quadrivalent 2017-18 (36 mos up)/PF	RX	ND
49281041810	influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	RX	ND
49281041850	influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	RX	ND
49281041858	influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	RX	ND
49281041888	influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	RX	ND
49281041910	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
49281041950	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
49281041958	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
49281041988	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
49281042010	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
49281042050	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
49281042058	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
49281042088	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
49281051300	influenza virus vaccine quad vs 2013-2014 (6 mos-35 mos)/PF	RX	ND
49281051325	influenza virus vaccine quad vs 2013-2014 (6 mos-35 mos)/PF	RX	ND
49281051400	influenza virus vaccine quadrival 2014-15 (6 mos-35 mos)/PF	RX	ND
49281051425	influenza virus vaccine quadrival 2014-15 (6 mos-35 mos)/PF	RX	ND
49281051500	influenza virus vaccine quadrival 2015-16 (6 mos-35 mos)/PF	RX	ND
49281051525	influenza virus vaccine quadrival 2015-16 (6 mos-35 mos)/PF	RX	ND
49281051600	influenza virus vaccine quadrival 2016-17 (6 mos-35 mos)/PF	RX	ND
49281051625	influenza virus vaccine quadrival 2016-17 (6 mos-35 mos)/PF	RX	ND
49281051700	influenza virus vaccine quadrival 2017-18 (6 mos-35 mos)/PF	RX	ND
49281051725	influenza virus vaccine quadrival 2017-18 (6 mos-35 mos)/PF	RX	ND
49281051800	influenza virus vaccine quadrival 2018-19 (6 mos-35 mos)/PF	RX	ND
49281051825	influenza virus vaccine quadrival 2018-19 (6 mos-35 mos)/PF	RX	ND
49281051900	influenza virus vaccine quadrival 2019-20 (6 mos-35 mos)/PF	RX	ND
49281051925	influenza virus vaccine quadrival 2019-20 (6 mos-35 mos)/PF	RX	ND
49281062115	influenza virus vaccine quadrival 2014-2015(6 mos and older)	RX	ND
49281062178	influenza virus vaccine quadrival 2014-2015(6 mos and older)	RX	ND
49281062315	influenza virus vaccine qvalsplitt 2015-2016(6 mos and older)	RX	ND
49281062378	influenza virus vaccine qvalsplitt 2015-2016(6 mos and older)	RX	ND
49281062515	influenza virus vaccine qvalsplitt 2016-2017(6 mos and older)	RX	ND
49281062578	influenza virus vaccine qvalsplitt 2016-2017(6 mos and older)	RX	ND
49281062715	influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	RX	ND
49281062778	influenza virus vaccine quadrivalent 2017-18 (6 mos and up)	RX	ND
49281062915	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND
49281062978	influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	RX	ND

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Code	Description	Code Category	Code Type
49281063115	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
49281063178	influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	RX	ND
49281063315	influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	RX	ND
49281063378	influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	RX	ND
49281064015	Influenza A (H1N1) Virus Vaccine Monovalent 2009	RX	ND
49281065010	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
49281065025	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
49281065050	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
49281065070	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
49281065090	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
49281070355	Influenza Virus Vaccine Trivalent-Split 2011-2012/PF	RX	ND
49281070555	influenza virus vaccine tvs 2012-2013 (18 yrs-64 yrs)/PF	RX	ND
49281070748	influenza virus vaccine tvs 2013-2014 (18 yrs-64 yrs)/PF	RX	ND
49281070755	influenza virus vaccine tvs 2013-2014 (18 yrs-64 yrs)/PF	RX	ND
49281070840	influenza virus vaccine quadrivalent 2015-16(18yrs-64yrs)/PF	RX	ND
49281070848	influenza virus vaccine quadrivalent 2015-16(18yrs-64yrs)/PF	RX	ND
49281070948	influenza virus vaccine trivalent 2014-15 (18 yrs-64 yrs)/PF	RX	ND
49281070955	influenza virus vaccine trivalent 2014-15 (18 yrs-64 yrs)/PF	RX	ND
49281071040	influenza virus vaccine quadrivalent 2016-17(18yrs-64yrs)/PF	RX	ND
49281071048	influenza virus vaccine quadrivalent 2016-17(18yrs-64yrs)/PF	RX	ND
49281071240	influenza virus vaccine quadrivalent 2017-18(18yrs-64yrs)/PF	RX	ND
49281071248	influenza virus vaccine quadrivalent 2017-18(18yrs-64yrs)/PF	RX	ND
49281071810	influenza virus vaccine qv 2018-19(18 yrs and older)rcmb/PF	RX	ND
49281071888	influenza virus vaccine qv 2018-19(18 yrs and older)rcmb/PF	RX	ND
49281071910	influenza virus vaccine qv 2019-20(18 yrs and older)rcmb/PF	RX	ND
49281071988	influenza virus vaccine qv 2019-20(18 yrs and older)rcmb/PF	RX	ND
49281072010	influenza virus vaccine qv 2020-21(18 yrs and older)rcmb/PF	RX	ND
49281072088	influenza virus vaccine qv 2020-21(18 yrs and older)rcmb/PF	RX	ND
54569456500	influenza virus tri-split	RX	ND
54569456600	influenza virus tri-split	RX	ND
54569480400	influenza virus tri-split	RX	ND
54569480500	influenza virus tri-split	RX	ND
54569518100	influenza virus tri-split	RX	ND
54569530700	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
54569532300	influenza virus tri-split	RX	ND
54569582100	Influenza Trivalent-Spit 2006-2007 Vaccine	RX	ND
54569597100	Influenza TV-S 07-08 Vaccine/PF	RX	ND
54569642100	influenza virus vaccine tv split 2013-2014 (4 yr and older)	RX	ND
54868412400	influenza virus tri-split	RX	ND
54868413000	influenza virus tri-split	RX	ND
54868444000	influenza virus tri-split	RX	ND
54868458100	influenza virus tri-split	RX	ND

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Code	Description	Code Category	Code Type
54868467600	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
54868494900	influenz vir vac tv p-surf2003	RX	ND
54868549500	influenza tv-s 05-06 vaccine	RX	ND
54868566500	Influenza Trivalent-Split 2006-2007 Vaccine	RX	ND
54868581300	influenza tv-s 07-08 vaccine	RX	ND
54868594100	influenza tv-s 08-09 vaccine	RX	ND
54868605900	Influenza Virus Vaccine Tri-Split 2009-2010	RX	ND
54868617700	Influenza Virus Vaccine Tri-Split 2010-2011	RX	ND
54868618000	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
58160087251	Influenza TV-S 05-06 Vaccine/PF	RX	ND
58160087346	Influenza TV-S 06-07 Vaccine/PF	RX	ND
58160087446	Influenza TV-S 07-08 Vaccine/PF	RX	ND
58160087541	Influenza TV-S 08-09 Vaccine/PF	RX	ND
58160087546	Influenza TV-S 08-09 Vaccine/PF	RX	ND
58160087646	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
58160087746	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
58160087852	influenza virus vaccine tv split 2011-2012 (3 yr & older)/PF	RX	ND
58160087941	influenza virus vaccine tv split 2012-2013 (3 yr & older)/PF	RX	ND
58160087952	influenza virus vaccine tv split 2012-2013 (3 yr & older)/PF	RX	ND
58160088041	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
58160088052	influenza virus vaccine tvs 2013-2014 (36 mos and older)/PF	RX	ND
58160088141	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
58160088152	influenza virus vaccine trival 2014-15 (36 mos and older)/PF	RX	ND
58160088541	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
58160088552	influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	RX	ND
58160089641	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
58160089652	influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	RX	ND
58160089841	influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	RX	ND
58160089852	influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	RX	ND
58160090041	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
58160090052	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
58160090141	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
58160090152	influenza virus vaccine quadrival 2014-15(36 mos, older)/PF	RX	ND
58160090341	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
58160090352	influenza virus vaccine quadrival split2015-16(36 mos,up)/PF	RX	ND
58160090541	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND
58160090552	influenza virus vaccine quadval split 2016-17(36 mos up)/PF	RX	ND
58160090741	influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	RX	ND
58160090752	influenza virus vaccine qvalsplitt 2017-2018(6 mos and up)/PF	RX	ND
62577061301	influenza vaccine tv split 2014-15 (18 yr,up)cell derived/PF	RX	ND
62577061311	influenza vaccine tv split 2014-15 (18 yr,up)cell derived/PF	RX	ND
62577061401	influenza vaccine trivalent 2015-16(18 yr,up)cell derived/PF	RX	ND

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Code	Description	Code Category	Code Type
62577061411	influenza vaccine trivalent 2015-16(18 yr,up)cell derived/PF	RX	ND
63851061101	influenza vaccine tri-splt 2012-13(18 yr +)cell derived/PF	RX	ND
63851061111	influenza vaccine tri-splt 2012-13(18 yr +)cell derived/PF	RX	ND
63851061201	influenza vaccine tv split 2013-14(18 yr,up) cell derived/PF	RX	ND
63851061211	influenza vaccine tv split 2013-14(18 yr,up) cell derived/PF	RX	ND
64029409801	influenza virus tri-split	RX	ND
64029409802	influenza virus tri-split	RX	ND
64029409901	influenza virus tri-split	RX	ND
64029409902	influenza virus tri-split	RX	ND
66019010001	influenza vacc,tri 2003(live)	RX	ND
66019010101	influenza vacc,tri live 2004	RX	ND
66019010201	influenza virus vaccine trivalent 2005-2006 (live)	RX	ND
66019010401	influenza vacc,tri 2006(live)	RX	ND
66019010501	influenza vacc,tri 2007(live)	RX	ND
66019010601	influenza vacc,tri 2008(live)	RX	ND
66019010701	Influenza Virus Vaccine Trivalent 2009-2010 (Live)	RX	ND
66019010810	Influenza Virus Vaccine Trivalent 2010-2011 (Live)	RX	ND
66019010910	influenza virus vaccine trivalent 2011-2012 (live)	RX	ND
66019011010	influenza virus vaccine tv live 2012-2013 (2 yrs-49 yrs)	RX	ND
66019020010	Influenza-A (H1N1) Virus Vaccine Monovalent 2009 (Live)	RX	ND
66019030010	influenza virus vaccine qval live 2013-2014 (2 yrs-49 yrs)	RX	ND
66019030101	influenza vaccine quadrivalent live 2014-2015 (2 yrs-49 yrs)	RX	ND
66019030110	influenza vaccine quadrivalent live 2014-2015 (2 yrs-49 yrs)	RX	ND
66019030201	influenza vaccine quadrivalent live 2015-2016 (2 yrs-49 yrs)	RX	ND
66019030210	influenza vaccine quadrivalent live 2015-2016 (2 yrs-49 yrs)	RX	ND
66019030301	influenza vaccine quadrivalent live 2016-2017 (2 yrs-49 yrs)	RX	ND
66019030310	influenza vaccine quadrivalent live 2016-2017 (2 yrs-49 yrs)	RX	ND
66019030401	influenza vaccine quadrivalent live 2017-2018 (2 yrs-49 yrs)	RX	ND
66019030410	influenza vaccine quadrivalent live 2017-2018 (2 yrs-49 yrs)	RX	ND
66019030501	influenza vaccine quadrivalent live 2018-2019 (2 yrs-49 yrs)	RX	ND
66019030510	influenza vaccine quadrivalent live 2018-2019 (2 yrs-49 yrs)	RX	ND
66019030601	influenza vaccine quadrivalent live 2019-2020 (2 yrs-49 yrs)	RX	ND
66019030610	influenza vaccine quadrivalent live 2019-2020 (2 yrs-49 yrs)	RX	ND
66019030701	influenza vaccine quadrivalent live 2020-2021 (2 yrs-49 yrs)	RX	ND
66019030710	influenza vaccine quadrivalent live 2020-2021 (2 yrs-49 yrs)	RX	ND
66521000001	influenza vaccine tvs 2015-16 (65 yr,up)/adjuvant MF59C.1/PF	RX	ND
66521000011	influenza vaccine tvs 2015-16 (65 yr,up)/adjuvant MF59C.1/PF	RX	ND
66521010401	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
66521010410	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
66521010501	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
66521010510	influenza virus vaccine trivalent,purified-surface antigen	RX	ND
66521010601	influenz vir vac tv p-surf2003	RX	ND

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
66521010610	influenz vir vac tv p-surf2003	RX	ND
66521010701	influenz vir vac tv p-surf2004	RX	ND
66521010710	influenz vir vac tv p-surf2004	RX	ND
66521010810	influenza tv-s 05-06 vaccine	RX	ND
66521010901	Influenza TV-S 06-07 Vaccine/PF	RX	ND
66521010910	Influenza Trivalent-Split 2006-2007 Vaccine	RX	ND
66521011001	Influenza TV-S 07-08 Vaccine/PF	RX	ND
66521011010	influenza tv-s 07-08 vaccine	RX	ND
66521011101	Influenza TV-S 08-09 Vaccine/PF	RX	ND
66521011102	Influenza TV-S 08-09 Vaccine/PF	RX	ND
66521011110	influenza tv-s 08-09 vaccine	RX	ND
66521011202	Influenza Virus Vaccine Trivalent-Split 2009-2010/PF	RX	ND
66521011210	Influenza Virus Vaccine Tri-Split 2009-2010	RX	ND
66521011302	Influenza Virus Vaccine Trivalent-Split 2010-2011/PF	RX	ND
66521011310	Influenza Virus Vaccine Tri-Split 2010-2011	RX	ND
66521011402	influenza virus vaccine tv split 2011-2012 (4 yr & older)/PF	RX	ND
66521011410	influenza virus vaccine tv split 2011-2012 (4 yr & older)	RX	ND
66521011502	influenza virus vaccine tv split 2012-2013 (4 yr & older)/PF	RX	ND
66521011510	influenza virus vaccine tv split 2012-2013 (4 yr & older)	RX	ND
66521011602	influenza virus vaccine tv split 2013-2014 (4 yr and up)/PF	RX	ND
66521011610	influenza virus vaccine tv split 2013-2014 (4 yr and older)	RX	ND
66521011611	influenza virus vaccine tv split 2013-2014 (4 yr and older)	RX	ND
66521011612	influenza virus vaccine tv split 2013-2014 (4 yr and up)/PF	RX	ND
66521011702	influenza virus vaccine trivalent 2014-2015 (4 yr, older)/PF	RX	ND
66521011710	influenza virus vaccine trivalent 2014-2015 (4 yr and older)	RX	ND
66521011711	influenza virus vaccine trivalent 2014-2015 (4 yr and older)	RX	ND
66521011712	influenza virus vaccine trivalent 2014-2015 (4 yr, older)/PF	RX	ND
66521011802	influenza virus vaccine trivalent 2015-2016 (4 yr, older)/PF	RX	ND
66521011810	influenza virus vaccine trivalent 2015-2016 (4 yr and older)	RX	ND
66521011811	influenza virus vaccine trivalent 2015-2016 (4 yr and older)	RX	ND
66521011812	influenza virus vaccine trivalent 2015-2016 (4 yr, older)/PF	RX	ND
66521020002	Influenza A (H1N1) Virus Vaccine Monovalent 2009/PF	RX	ND
66521020010	Influenza A (H1N1) Virus Vaccine Monovalent 2009	RX	ND
66521020025	Influenza A (H1N1) Virus Vaccine Monovalent 2009	RX	ND
70461000101	influenza vaccine tvs 2016-17 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461000111	influenza vaccine tvs 2016-17 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461000201	influenza vaccine tvs 2017-18 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461000211	influenza vaccine tvs 2017-18 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461001803	influenza vaccine tvs 2018-19 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461001804	influenza vaccine tvs 2018-19 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461001903	influenza vaccine tvs 2019-20 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461001904	influenza vaccine tvs 2019-20 (65 yr up)/adjuvant MF59C.1/PF	RX	ND

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Code	Description	Code Category	Code Type
70461002003	influenza vaccine tvs 2020-21 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461002004	influenza vaccine tvs 2020-21 (65 yr up)/adjuvant MF59C.1/PF	RX	ND
70461011902	influenza virus vaccine trival 2016-2017 (4yr and older)/PF	RX	ND
70461011910	influenza virus vaccine trivalent 2016-2017 (4 yr and older)	RX	ND
70461011911	influenza virus vaccine trivalent 2016-2017 (4 yr and older)	RX	ND
70461011912	influenza virus vaccine trival 2016-2017 (4yr and older)/PF	RX	ND
70461012002	influenza virus vaccine trival 2017-2018 (4yr and older)/PF	RX	ND
70461012003	influenza vaccine quadrivalent 2020-21 (65 yr up)/MF59C.1/PF	RX	ND
70461012004	influenza vaccine quadrivalent 2020-21 (65 yr up)/MF59C.1/PF	RX	ND
70461012010	influenza virus vaccine trivalent 2017-2018 (4 yr and older)	RX	ND
70461012011	influenza virus vaccine trivalent 2017-2018 (4 yr and older)	RX	ND
70461012012	influenza virus vaccine trival 2017-2018 (4yr and older)/PF	RX	ND
70461020001	flu vaccine qs 2016-2017(4 years and older)cell derived/PF	RX	ND
70461020011	flu vaccine qs 2016-2017(4 years and older)cell derived/PF	RX	ND
70461020101	flu vaccine quad 2017-2018(4 years and older)cell derived/PF	RX	ND
70461020111	flu vaccine quad 2017-2018(4 years and older)cell derived/PF	RX	ND
70461030110	flu vaccine quadriv 2017-2018(4 years and older)cell derived	RX	ND
70461030112	flu vaccine quadriv 2017-2018(4 years and older)cell derived	RX	ND
70461031803	flu vaccine quad 2018-2019(4 years and older)cell derived/PF	RX	ND
70461031804	flu vaccine quad 2018-2019(4 years and older)cell derived/PF	RX	ND
70461031903	flu vaccine quad 2019-2020(4 years and older)cell derived/PF	RX	ND
70461031904	flu vaccine quad 2019-2020(4 years and older)cell derived/PF	RX	ND
70461032003	flu vaccine quad 2020-2021(4 years and older)cell derived/PF	RX	ND
70461032004	flu vaccine quad 2020-2021(4 years and older)cell derived/PF	RX	ND
70461041810	flu vaccine quadriv 2018-2019(4 years and older)cell derived	RX	ND
70461041811	flu vaccine quadriv 2018-2019(4 years and older)cell derived	RX	ND
70461041910	flu vaccine quadriv 2019-2020(4 years and older)cell derived	RX	ND
70461041911	flu vaccine quadriv 2019-2020(4 years and older)cell derived	RX	ND
70461042010	flu vaccine quadriv 2020-2021(4 years and older)cell derived	RX	ND
70461042011	flu vaccine quadriv 2020-2021(4 years and older)cell derived	RX	ND
76420047010	influenza virus vaccine tv split 2012-2013 (4 yr & older)	RX	ND
76420047101	influenza virus vaccine tv split 2012-2013 (4 yr & older)/PF	RX	ND
76420048101	influenza virus vaccine tv split 2013-2014 (4 yr and up)/PF	RX	ND
76420048201	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
76420048301	influenza virus vaccine quad vs 2013-14(36 mos and older)/PF	RX	ND
76420049301	influenza vaccine tv split 2014-15 (18 yr,up)cell derived/PF	RX	ND
76420049501	influenza virus vaccine trivalent 2015-2016 (4 yr, older)/PF	RX	ND
76420051001	influenza vaccine trivalent 2015-16(18 yr,up)cell derived/PF	RX	ND
76420051101	influenza virus vaccine trival 2016-2017 (4yr and older)/PF	RX	ND
76420051501	influenza virus vaccine trivalent 2016-2017 (5 years up)/PF	RX	ND
76420051701	influenza virus vaccine quadrival 2016-17 (6 mos-35 mos)/PF	RX	ND
76420052101	flu vaccine quad 2018-2019(4 years and older)cell derived/PF	RX	ND

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Code	Description	Code Category	Code Type
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 (cclIV3), 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
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

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Code	Description	Code Category	Code Type
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
G2163	Patient received an influenza vaccine on or between July 1 of the year prior to the measurement period and June 30 of the measurement period	Procedure	HCPCS
G8108	Patient documented to have received influenza vaccination during influenza season	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
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
Poliovirus Vaccine			
00005208408	poliomyelitis vaccine,live	RX	ND
00005208412	poliomyelitis vaccine,live	RX	ND
49281051005	diphtheria,pertussis(acell),tetanus,polio/Haemophilus B/PF	RX	ND
49281051105	diphtheria,pertussis(acell),tetanus,polio/Haemophilus B/PF	RX	ND
49281086010	poliomyelitis vaccine, killed	RX	ND
49281086051	poliomyelitis vaccine, killed	RX	ND
49281086052	poliomyelitis vaccine, killed	RX	ND
49281086055	poliomyelitis vaccine, killed	RX	ND

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Code	Description	Code Category	Code Type
49281086078	poliomyelitis vaccine, killed	RX	ND
49281086088	poliomyelitis vaccine, killed	RX	ND
54569324600	poliomyelitis vaccine, killed	RX	ND
54569481200	poliomyelitis vaccine, killed	RX	ND
54868336100	poliomyelitis vaccine,live	RX	ND
54868410500	poliomyelitis vaccine, killed	RX	ND
58160081111	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081141	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081143	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081146	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081151	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081152	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160084111	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
58160084146	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
90696	Diphtheria, tetanus toxoids, acellular pertussis vaccine and inactivated poliovirus vaccine (DTaP-IPV), when administered to children 4 through 6 years of age, for intramuscular use	Procedure	CPT-4
90697	Diphtheria, tetanus toxoids, acellular pertussis vaccine, inactivated poliovirus vaccine, Haemophilus influenzae type b PRP-OMP conjugate vaccine, and hepatitis B vaccine (DTaP-IPV-Hib-HepB), for intramuscular use	Procedure	CPT-4
90698	Diphtheria, tetanus toxoids, acellular pertussis vaccine, Haemophilus influenzae type b, and inactivated poliovirus vaccine, (DTaP-IPV/Hib), for intramuscular use	Procedure	CPT-4
90713	Poliovirus vaccine, inactivated (IPV), for subcutaneous or intramuscular use	Procedure	CPT-4
90723	Diphtheria, tetanus toxoids, acellular pertussis vaccine, hepatitis B, and inactivated poliovirus vaccine (DTaP-HepB-IPV), for intramuscular use	Procedure	CPT-4
Meningococcal Conjugate Vaccine			
46028020801	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
46028021811	meningococcal A diphtheria-conj vaccine component 1 of 2/PF	RX	ND
46028021911	meningococcal C,Y,W-135,dip-conj vaccine component 2 of 2/PF	RX	ND
49281046608	diluent for meningococcal vac A,C,Y,W-135,single-dose(water)	RX	ND
49281046691	diluent for meningococcal vacc A,C,Y,W-135,multi-dose(water)	RX	ND
49281048758	Meningococcal Vaccine A,C,Y,W-135/PF	RX	ND
49281048878	meningococcal vac A,C,Y,W-135	RX	ND
49281048901	Meningococcal Vaccine A,C,Y,W-135/PF	RX	ND
49281048905	Meningococcal Vaccine A,C,Y,W-135/PF	RX	ND
49281048991	meningococcal vac A,C,Y,W-135	RX	ND
49281058901	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
49281058905	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
49281058915	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
49281058958	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
49281059005	meningococcal vaccine A,C,Y and W-135,conj tetanus toxoid/PF	RX	ND
49281059058	meningococcal vaccine A,C,Y and W-135,conj tetanus toxoid/PF	RX	ND

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Code	Description	Code Category	Code Type
54569318800	meningococcal vac A,C,Y,W-135	RX	ND
54569484000	meningococcal vac A,C,Y,W-135	RX	ND
58160080111	meningococcal vaccine C,Y/Haemophilus b conj-tetanus tox/PF	RX	ND
58160080901	meningococcal vaccine C,Y/Haemophilus b conj-tetanus tox/PF	RX	ND
58160080905	meningococcal vaccine C,Y/Haemophilus b conj-tetanus tox/PF	RX	ND
58160081301	diluent for meningo C,Y/Haemophilus b conj vacc (0.9 % NaCl)	RX	ND
58160081305	diluent for meningo C,Y/Haemophilus b conj vacc (0.9 % NaCl)	RX	ND
58160095509	meningococcalvaccine A,C,Y,W-135,diphtheria toxoid conj/PF	RX	ND
58160095801	meningococcal A diphtheria-conj vaccine component 1 of 2/PF	RX	ND
58160095901	meningococcal C,Y,W-135,dip-conj vaccine component 2 of 2/PF	RX	ND
90619	Meningococcal conjugate vaccine, serogroups A, C, W, Y, quadrivalent, tetanus toxoid carrier (MenACWY-TT), for intramuscular use	Procedure	CPT-4
90620	Meningococcal recombinant protein and outer membrane vesicle vaccine, serogroup B (MenB-4C), 2 dose schedule, for intramuscular use	Procedure	CPT-4
90621	Meningococcal recombinant lipoprotein vaccine, serogroup B (MenB-FHbp), 2 or 3 dose schedule, for intramuscular use	Procedure	CPT-4
90644	Meningococcal conjugate vaccine, serogroups C & Y and Haemophilus influenzae type b vaccine (Hib-MenCY), 4 dose schedule, when administered to children 6 weeks-18 months of age, for intramuscular use	Procedure	CPT-4
90733	Meningococcal polysaccharide vaccine, serogroups A, C, Y, W-135, quadrivalent (MPSV4), for subcutaneous use	Procedure	CPT-4
90734	Meningococcal conjugate vaccine, serogroups A, C, W, Y, quadrivalent, diphtheria toxoid carrier (MenACWY-D) or CRM197 carrier (MenACWY-CRM), for intramuscular use	Procedure	CPT-4
G9414	Patient had one dose of meningococcal vaccine (serogroups a, c, w, y) on or between the patient's 11th and 13th birthdays	Procedure	HCPCS
Measles mumps rubella varicella vaccine			
00006417100	measles, mumps, rubella, and varicella vaccine live/PF	RX	ND
00006417101	measles, mumps, rubella, and varicella vaccine live/PF	RX	ND
00006468100	measles, mumps, and rubella vaccine live/PF	RX	ND
00006468101	measles, mumps, and rubella vaccine live/PF	RX	ND
00006474900	measles, mumps, and rubella live vaccine	RX	ND
00006498400	measles, mumps, rubella, and varicella vaccine live/PF	RX	ND
00006499900	measles, mumps, rubella, and varicella vaccine live/PF	RX	ND
00006499901	measles, mumps, rubella, and varicella vaccine live/PF	RX	ND
00247040301	measles, mumps, and rubella vaccine live/PF	RX	ND
49999042201	measles, mumps, and rubella vaccine live/PF	RX	ND
49999042210	measles, mumps, and rubella vaccine live/PF	RX	ND
54569158800	measles, mumps, and rubella vaccine live/PF	RX	ND
54569306600	measles, mumps, and rubella live vaccine	RX	ND
54868098000	measles, mumps, and rubella vaccine live/PF	RX	ND
90707	Measles, mumps and rubella virus vaccine (MMR), live, for subcutaneous use	Procedure	CPT-4

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Code	Description	Code Category	Code Type
90709	Measles, mumps, rubella, and varicella vaccine (MMRV), live, for subcutaneous use	Procedure	CPT-4
90710	Measles, mumps, rubella, and varicella vaccine (MMRV), live, for subcutaneous use	Procedure	CPT-4
99.48	Administration of measles-mumps-rubella vaccine	Procedure	ICD-9-CM
Rotavirus Vaccine			
00006404701	rotavirus vaccine, live oral pentavalent	RX	ND
00006404720	rotavirus vaccine, live oral pentavalent	RX	ND
00006404731	rotavirus vaccine, live oral pentavalent	RX	ND
00006404741	rotavirus vaccine, live oral pentavalent	RX	ND
00008256201	rotavirus vaccine, live oral tetraaval/sod.bicarb/citric acid	RX	ND
58160080501	rotavirus vaccine, live oral attenuated, 89-12 strain, G1P(8)	RX	ND
58160080511	rotavirus vaccine, live oral attenuated, 89-12 strain, G1P(8)	RX	ND
58160085101	rotavirus vaccine, live oral attenuated, 89-12 strain, G1P(8)	RX	ND
58160085110	rotavirus vaccine, live oral attenuated, 89-12 strain, G1P(8)	RX	ND
58160085302	diluent for oral live rotavirus vaccine (calcium carbonate)	RX	ND
58160085452	rotavirus vaccine, live oral attenuated, 89-12 strain, G1P(8)	RX	ND
90680	Rotavirus vaccine, pentavalent (RV5), 3 dose schedule, live, for oral use	Procedure	CPT-4
90681	Rotavirus vaccine, human, attenuated (RV1), 2 dose schedule, live, for oral use	Procedure	CPT-4
Varicella Virus Vaccine			
00006482600	varicella virus vaccine live/PF	RX	ND
00006482601	varicella virus vaccine live/PF	RX	ND
00006482700	varicella virus vaccine live/PF	RX	ND
00006482701	varicella virus vaccine live/PF	RX	ND
54569405500	varicella virus vaccine live/PF	RX	ND
54569405600	varicella virus vaccine live/PF	RX	ND
54868362400	varicella virus vaccine live/PF	RX	ND
90709	Measles, mumps, rubella, and varicella vaccine (MMRV), live, for subcutaneous use	Procedure	CPT-4
90710	Measles, mumps, rubella, and varicella vaccine (MMRV), live, for subcutaneous use	Procedure	CPT-4
90716	Varicella virus vaccine (VAR), live, for subcutaneous use	Procedure	CPT-4
Pneumococcal Conjugate Vaccine			
00005197101	pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	RX	ND
00005197102	pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	RX	ND
00005197105	pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	RX	ND
4040F	Pneumococcal vaccine administered or previously received (COPD) (PV), (IBD)	Procedure	CPT-2
50090194400	pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	RX	ND
54569661300	pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	RX	ND
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
90671	Pneumococcal conjugate vaccine, 15 valent (PCV15), for intramuscular use	Procedure	CPT-4

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
90677	Pneumococcal conjugate vaccine, 20 valent (PCV20), 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
G0009	Administration of pneumococcal vaccine	Procedure	HCPCS
G8115	Patient documented to have received pneumococcal vaccination	Procedure	HCPCS
G8864	Pneumococcal vaccine administered or previously received	Procedure	HCPCS
S0195	Pneumococcal conjugate vaccine, polyvalent, intramuscular, for children from 5 years to 9 years of age who have not previously received the vaccine	Procedure	HCPCS
Vitamin Administration			
A9152	Single vitamin/mineral/trace element, oral, per dose, not otherwise specified	Procedure	HCPCS
A9153	Multiple vitamins, with or without minerals and trace elements, oral, per dose, not otherwise specified	Procedure	HCPCS
B4149	Enteral formula, manufactured blenderized natural foods with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4150	Enteral formula, nutritionally complete with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4152	Enteral formula, nutritionally complete, calorically dense (equal to or greater than 1.5 kcal/ml) with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4153	Enteral formula, nutritionally complete, hydrolyzed proteins (amino acids and peptide chain), includes fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4154	Enteral formula, nutritionally complete, for special metabolic needs, excludes inherited disease of metabolism, includes altered composition of proteins, fats, carbohydrates, vitamins and/or minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4157	Enteral formula, nutritionally complete, for special metabolic needs for inherited disease of metabolism, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4158	Enteral formula, for pediatrics, nutritionally complete with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber and/or iron, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4159	Enteral formula, for pediatrics, nutritionally complete soy based with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber and/or iron, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS

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Code	Description	Code Category	Code Type
B4160	Enteral formula, for pediatrics, nutritionally complete calorically dense (equal to or greater than 0.7 kcal/ml) with intact nutrients, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4161	Enteral formula, for pediatrics, hydrolyzed/amino acids and peptide chain proteins, includes fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4162	Enteral formula, for pediatrics, special metabolic needs for inherited disease of metabolism, includes proteins, fats, carbohydrates, vitamins and minerals, may include fiber, administered through an enteral feeding tube, 100 calories = 1 unit	Procedure	HCPCS
B4189	Parenteral nutrition solution: compounded amino acid and carbohydrates with electrolytes, trace elements, and vitamins, including preparation, any strength, 10 to 51 g of protein, premix	Procedure	HCPCS
B4193	Parenteral nutrition solution: compounded amino acid and carbohydrates with electrolytes, trace elements, and vitamins, including preparation, any strength, 52 to 73 g of protein, premix	Procedure	HCPCS
B4197	Parenteral nutrition solution; compounded amino acid and carbohydrates with electrolytes, trace elements and vitamins, including preparation, any strength, 74 to 100 g of protein - premix	Procedure	HCPCS
B4199	Parenteral nutrition solution; compounded amino acid and carbohydrates with electrolytes, trace elements and vitamins, including preparation, any strength, over 100 g of protein - premix	Procedure	HCPCS
B4216	Parenteral nutrition; additives (vitamins, trace elements, Heparin, electrolytes), home mix, per day	Procedure	HCPCS
B5000	Parenteral nutrition solution: compounded amino acid and carbohydrates with electrolytes, trace elements, and vitamins, including preparation, any strength, renal - Amirosyn RF, NephroAmine, RenAmine - premix	Procedure	HCPCS
B5100	Parenteral nutrition solution compounded amino acid and carbohydrates with electrolytes, trace elements, and vitamins, including preparation, any strength, hepatic-HepatoAmine-premix	Procedure	HCPCS
B5200	Parenteral nutrition solution compounded amino acid and carbohydrates with electrolytes, trace elements, and vitamins, including preparation, any strength, stress-branch chain amino acids-FreAmine-HBC-premix	Procedure	HCPCS
J0604	Cinacalcet, oral, 1 mg, (for ESRD on dialysis)	Procedure	HCPCS
J3411	Injection, thiamine HCl, 100 mg	Procedure	HCPCS
J3415	Injection, pyridoxine HCl, 100 mg	Procedure	HCPCS
J3420	Injection, vitamin B-12 cyanocobalamin, up to 1,000 mcg	Procedure	HCPCS
J3430	Injection, phytonadione (vitamin K), per 1 mg	Procedure	HCPCS
J3570	Laetrile, amygdalin, vitamin B-17	Procedure	HCPCS
S0194	Dialysis/stress vitamin supplement, oral, 100 capsules	Procedure	HCPCS
S0197	Prenatal vitamins, 30-day supply	Procedure	HCPCS

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Code	Description	Code Category	Code Type
Ampicillin			
J0290	Injection, ampicillin sodium, 500 mg	Procedure	HCPCS
J0295	Injection, ampicillin sodium/sulbactam sodium, per 1.5 g	Procedure	HCPCS
Antibiotic Administration			
00.14	Injection or infusion of oxazolidinone class of antibiotics	Procedure	ICD-9-CM
3E00X28	Introduction of Oxazolidinones into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E00X29	Introduction of Other Anti-infective into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E01328	Introduction of Oxazolidinones into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E01329	Introduction of Other Anti-infective into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E02328	Introduction of Oxazolidinones into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E02329	Introduction of Other Anti-infective into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E03028	Introduction of Oxazolidinones into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03029	Introduction of Other Anti-infective into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03328	Introduction of Oxazolidinones into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E03329	Introduction of Other Anti-infective into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04028	Introduction of Oxazolidinones into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04029	Introduction of Other Anti-infective into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04328	Introduction of Oxazolidinones into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04329	Introduction of Other Anti-infective into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E05028	Introduction of Oxazolidinones into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05029	Introduction of Other Anti-infective into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05328	Introduction of Oxazolidinones into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E05329	Introduction of Other Anti-infective into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06028	Introduction of Oxazolidinones into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06029	Introduction of Other Anti-infective into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06328	Introduction of Oxazolidinones into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06329	Introduction of Other Anti-infective into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E09328	Introduction of Oxazolidinones into Nose, Percutaneous Approach	Procedure	ICD-10-PCS
3E09728	Introduction of Oxazolidinones into Nose, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E09X28	Introduction of Oxazolidinones into Nose, External Approach	Procedure	ICD-10-PCS
3E0B328	Introduction of Oxazolidinones into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B728	Introduction of Oxazolidinones into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0BX28	Introduction of Oxazolidinones into Ear, External Approach	Procedure	ICD-10-PCS
3E0C328	Introduction of Oxazolidinones into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0C728	Introduction of Oxazolidinones into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0CX28	Introduction of Oxazolidinones into Eye, External Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
3E0D328	Introduction of Oxazolidinones into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS
3E0D728	Introduction of Oxazolidinones into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0DX28	Introduction of Oxazolidinones into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E0F328	Introduction of Oxazolidinones into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F329	Introduction of Other Anti-infective into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F728	Introduction of Oxazolidinones into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F729	Introduction of Other Anti-infective into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F828	Introduction of Oxazolidinones into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0F829	Introduction of Other Anti-infective into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G328	Introduction of Oxazolidinones into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G329	Introduction of Other Anti-infective into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G728	Introduction of Oxazolidinones into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G729	Introduction of Other Anti-infective into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G828	Introduction of Oxazolidinones into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G829	Introduction of Other Anti-infective into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0H328	Introduction of Oxazolidinones into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H329	Introduction of Other Anti-infective into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0H728	Introduction of Oxazolidinones into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0H729	Introduction of Other Anti-infective into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0H828	Introduction of Oxazolidinones into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0H829	Introduction of Other Anti-infective into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0J328	Introduction of Oxazolidinones into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0J329	Introduction of Other Anti-infective into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0J728	Introduction of Oxazolidinones into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0J729	Introduction of Other Anti-infective into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
3E0J828	Introduction of Oxazolidinones into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0J829	Introduction of Other Anti-infective into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0K328	Introduction of Oxazolidinones into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0K329	Introduction of Other Anti-infective into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0K728	Introduction of Oxazolidinones into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0K729	Introduction of Other Anti-infective into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0K828	Introduction of Oxazolidinones into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0K829	Introduction of Other Anti-infective into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0L328	Introduction of Oxazolidinones into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0L329	Introduction of Other Anti-infective into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0M328	Introduction of Oxazolidinones into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0M329	Introduction of Other Anti-infective into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N328	Introduction of Oxazolidinones into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N329	Introduction of Other Anti-infective into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N728	Introduction of Oxazolidinones into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N729	Introduction of Other Anti-infective into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N828	Introduction of Oxazolidinones into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N829	Introduction of Other Anti-infective into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0P328	Introduction of Oxazolidinones into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0P329	Introduction of Other Anti-infective into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0P728	Introduction of Oxazolidinones into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P729	Introduction of Other Anti-infective into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P828	Introduction of Oxazolidinones into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
3E0P829	Introduction of Other Anti-infective into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0Q028	Introduction of Oxazolidinones into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Q029	Introduction of Other Anti-infective into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Q328	Introduction of Oxazolidinones into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q329	Introduction of Other Anti-infective into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R328	Introduction of Oxazolidinones into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R329	Introduction of Other Anti-infective into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S328	Introduction of Oxazolidinones into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S329	Introduction of Other Anti-infective into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U028	Introduction of Oxazolidinones into Joints, Open Approach	Procedure	ICD-10-PCS
3E0U029	Introduction of Other Anti-infective into Joints, Open Approach	Procedure	ICD-10-PCS
3E0U328	Introduction of Oxazolidinones into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U329	Introduction of Other Anti-infective into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V328	Introduction of Oxazolidinones into Bones, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V329	Introduction of Other Anti-infective into Bones, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W328	Introduction of Oxazolidinones into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W329	Introduction of Other Anti-infective into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y328	Introduction of Oxazolidinones into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y329	Introduction of Other Anti-infective into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
4043F	Documentation that an order was given to discontinue prophylactic antibiotics within 48 hours of surgical end time, cardiac procedures (PERI 2)	Procedure	CPT-2
4045F	Appropriate empiric antibiotic prescribed (CAP), (EM)	Procedure	CPT-2
4046F	Documentation that prophylactic antibiotics were given within 4 hours prior to surgical incision or given intraoperatively (PERI 2)	Procedure	CPT-2
4047F	Documentation of order for prophylactic parenteral antibiotics to be given within 1 hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required) (PERI 2)	Procedure	CPT-2
4048F	Documentation that administration of prophylactic parenteral antibiotic was initiated within 1 hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required) as ordered (PERI 2)	Procedure	CPT-2
4049F	Documentation that order was given to discontinue prophylactic antibiotics within 24 hours of surgical end time, non-cardiac procedure (PERI 2)	Procedure	CPT-2
4120F	Antibiotic prescribed or dispensed (URI, PHAR), (A-BRONCH)	Procedure	CPT-2
90788	Intramuscular injection of antibiotic (specify)	Procedure	CPT-4
99.21	Injection of antibiotic	Procedure	ICD-9-CM
99556	Home infusion for antibiotics/antifungals/antivirals, per visit	Procedure	CPT-4

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Code	Description	Code Category	Code Type
G8012	Pneumonia: patient documented to have received antibiotic within 4 hours of presentation	Procedure	HCPCS
G8152	Patient documented to have received antibiotic prophylaxis one hour prior to incision time (2 hours for vancomycin)	Procedure	HCPCS
G8191	Clinician documented to have given order for prophylactic antibiotic to be given within one hour (if vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8192	Clinician documented to have given the prophylactic antibiotic within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8195	Clinician documented to have given the prophylactic antibiotic within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8197	Patient documented to have order for prophylactic antibiotic to be given within one hour (if vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8202	Clinician documented an order was given to discontinue prophylactic antibiotics within 24 hours of surgical end time	Procedure	HCPCS
G8203	Clinician documented that prophylactic antibiotics were discontinued within 24 hours of surgical end time	Procedure	HCPCS
G8206	Clinician documented that prophylactic antibiotic was given	Procedure	HCPCS
G8207	Clinician documented an order was given to discontinue prophylactic antibiotics within 48 hours of surgical end time	Procedure	HCPCS
G8208	Clinician documented that prophylactic antibiotics were discontinued within 48 hours of surgical end time	Procedure	HCPCS
G8211	Clinician documented that prophylactic antibiotic was given	Procedure	HCPCS
G8366	Patient documented to have appropriate empiric antibiotic prescribed	Procedure	HCPCS
G8503	Documentation that prophylactic antibiotic was given within one hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8504	Documentation of order for prophylactic antibiotics to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8629	Documentation of order for prophylactic parenteral antibiotic to be given within one hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8630	Documentation that administration of prophylactic parenteral antibiotics was initiated within one hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required), as ordered	Procedure	HCPCS
G8702	Documentation that prophylactic antibiotics were given within 4 hours prior to surgical incision or intraoperatively	Procedure	HCPCS

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
G8709	Patient prescribed or dispensed antibiotic for documented medical reason(s) within three days after the initial diagnosis of URI (e.g., intestinal infection, pertussis, bacterial infection, lyme disease, otitis media, acute sinusitis, acute pharyngitis, acute tonsillitis, chronic sinusitis, infection of the pharynx/larynx/tonsils/adenoids, prostatitis, cellulitis, mastoiditis, or bone infections, acute lymphadenitis, impetigo, skin staph infections, pneumonia/gonococcal infections, venereal disease (syphilis, chlamydia, inflammatory diseases (female reproductive organs)), infections of the kid	Procedure	HCPCS
G8710	Patient prescribed or dispensed antibiotic	Procedure	HCPCS
G8711	Prescribed or dispensed antibiotic	Procedure	HCPCS
G8916	Patient with preoperative order for IV antibiotic surgical site infection (SSI) prophylaxis, antibiotic initiated on time	Procedure	HCPCS
G8917	Patient with preoperative order for IV antibiotic surgical site infection (SSI) prophylaxis, antibiotic not initiated on time	Procedure	HCPCS
G8918	Patient without preoperative order for IV antibiotic surgical site infection (SSI) prophylaxis	Procedure	HCPCS
G9286	Antibiotic regimen prescribed within 10 days after onset of symptoms	Procedure	HCPCS
G9300	Documentation of medical reason(s) for not completely infusing the prophylactic antibiotic prior to the inflation of the proximal tourniquet (e.g., a tourniquet was not used)	Procedure	HCPCS
G9301	Patients who had the prophylactic antibiotic completely infused prior to the inflation of the proximal tourniquet	Procedure	HCPCS
G9302	Prophylactic antibiotic not completely infused prior to the inflation of the proximal tourniquet, reason not given	Procedure	HCPCS
G9315	Documentation amoxicillin, with or without clavulanate, prescribed as a first line antibiotic at the time of diagnosis	Procedure	HCPCS
G9498	Antibiotic regimen prescribed	Procedure	HCPCS
G9505	Antibiotic regimen prescribed within 10 days after onset of symptoms for documented medical reason	Procedure	HCPCS
G9558	Patient treated with a beta-lactam antibiotic as definitive therapy	Procedure	HCPCS
G9701	Children who are taking antibiotics in the 30 days prior to the date of the encounter during which the diagnosis was established	Procedure	HCPCS
G9703	Children who are taking antibiotics in the 30 days prior to the diagnosis of pharyngitis	Procedure	HCPCS
G9712	Documentation of medical reason(s) for prescribing or dispensing antibiotic (e.g., intestinal infection, pertussis, bacterial infection, lyme disease, otitis media, acute sinusitis, acute pharyngitis, acute tonsillitis, chronic sinusitis, infection of the pharynx/larynx/tonsils/adenoids, prostatitis, cellulitis/mastoiditis/bone infections, acute lymphadenitis, impetigo, skin staph infections, pneumonia, gonococcal infections/venereal disease (syphilis, chlamydia, inflammatory diseases [female reproductive organs]), infections of the kidney, cystitis/UTI, acne, HIV disease/asymptomatic HIV, cys	Procedure	HCPCS

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
J0120	Injection, tetracycline, up to 250 mg	Procedure	HCPCS
J0121	Injection, omadacycline, 1 mg	Procedure	HCPCS
J0122	Injection, eravacycline, 1 mg	Procedure	HCPCS
J0200	Injection, alatrofloxacin mesylate, 100 mg	Procedure	HCPCS
J0278	Injection, amikacin sulfate, 100 mg	Procedure	HCPCS
J0285	Injection, amphotericin B, 50 mg	Procedure	HCPCS
J0287	Injection, amphotericin B lipid complex, 10 mg	Procedure	HCPCS
J0288	Injection, amphotericin B cholesteryl sulfate complex, 10 mg	Procedure	HCPCS
J0289	Injection, amphotericin B liposome, 10 mg	Procedure	HCPCS
J0290	Injection, ampicillin sodium, 500 mg	Procedure	HCPCS
J0295	Injection, ampicillin sodium/sulbactam sodium, per 1.5 g	Procedure	HCPCS
J0456	Injection, azithromycin, 500 mg	Procedure	HCPCS
J0558	Injection, penicillin G benzathine and penicillin G procaine, 100,000 units	Procedure	HCPCS
J0561	Injection, penicillin G benzathine, 100,000 units	Procedure	HCPCS
J0690	Injection, cefazolin sodium, 500 mg	Procedure	HCPCS
J0692	Injection, cefepime HCl, 500 mg	Procedure	HCPCS
J0694	Injection, ceftiofloxacin sodium, 1 g	Procedure	HCPCS
J0695	Injection, ceftolozane 50 mg and tazobactam 25 mg	Procedure	HCPCS
J0696	Injection, ceftriaxone sodium, per 250 mg	Procedure	HCPCS
J0697	Injection, sterile cefuroxime sodium, per 750 mg	Procedure	HCPCS
J0698	Injection, cefotaxime sodium, per g	Procedure	HCPCS
J0712	Injection, ceftaroline fosamil, 10 mg	Procedure	HCPCS
J0713	Injection, ceftazidime, per 500 mg	Procedure	HCPCS
J0714	Injection, ceftazidime and avibactam, 0.5 g/0.125 g	Procedure	HCPCS
J0715	Injection, ceftizoxime sodium, per 500 mg	Procedure	HCPCS
J0743	Injection, cilastatin sodium; imipenem, per 250 mg	Procedure	HCPCS
J0744	Injection, ciprofloxacin for intravenous infusion, 200 mg	Procedure	HCPCS
J0875	Injection, dalbavancin, 5 mg	Procedure	HCPCS
J0878	Injection, daptomycin, 1 mg	Procedure	HCPCS
J1267	Injection, doripenem, 10 mg	Procedure	HCPCS
J1335	Injection, ertapenem sodium, 500 mg	Procedure	HCPCS
J1364	Injection, erythromycin lactobionate, per 500 mg	Procedure	HCPCS
J1580	Injection, garamycin, gentamicin, up to 80 mg	Procedure	HCPCS
J1840	Injection, kanamycin sulfate, up to 500 mg	Procedure	HCPCS
J1850	Injection, kanamycin sulfate, up to 75 mg	Procedure	HCPCS
J1890	Injection, cephalothin sodium, up to 1 g	Procedure	HCPCS
J1956	Injection, levofloxacin, 250 mg	Procedure	HCPCS
J2010	Injection, lincomycin HCl, up to 300 mg	Procedure	HCPCS
J2020	Injection, linezolid, 200 mg	Procedure	HCPCS
J2185	Injection, meropenem, 100 mg	Procedure	HCPCS
J2186	Injection, meropenem, vaborbactam, 10 mg/10 mg, (20 mg)	Procedure	HCPCS
J2265	Injection, minocycline HCl, 1 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J2280	Injection, moxifloxacin, 100 mg	Procedure	HCPCS
J2407	Injection, oritavancin, 10 mg	Procedure	HCPCS
J2460	Injection, oxytetracycline HCl, up to 50 mg	Procedure	HCPCS
J2510	Injection, penicillin G procaine, aqueous, up to 600,000 units	Procedure	HCPCS
J2540	Injection, penicillin G potassium, up to 600,000 units	Procedure	HCPCS
J2543	Injection, piperacillin sodium/tazobactam sodium, 1 g/0.125 g (1.125 g)	Procedure	HCPCS
J2700	Injection, oxacillin sodium, up to 250 mg	Procedure	HCPCS
J3000	Injection, streptomycin, up to 1 g	Procedure	HCPCS
J3090	Injection, tedizolid phosphate, 1 mg	Procedure	HCPCS
J3095	Injection, telavancin, 10 mg	Procedure	HCPCS
J3243	Injection, tigecycline, 1 mg	Procedure	HCPCS
J3260	Injection, tobramycin sulfate, up to 80 mg	Procedure	HCPCS
J3320	Injection, spectinomycin dihydrochloride, up to 2 g	Procedure	HCPCS
J3370	Injection, vancomycin HCl, 500 mg	Procedure	HCPCS
J7682	Tobramycin, inhalation solution, FDA-approved final product, noncompounded, unit dose form, administered through DME, per 300 mg	Procedure	HCPCS
J7683	Triamcinolone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J7684	Triamcinolone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7685	Tobramycin, inhalation solution, compounded product, administered through DME, unit dose form, per 300 mg	Procedure	HCPCS
S5016	Antibiotic administration supplies (with pump), per day	Procedure	HCPCS
S5017	Antibiotic administration supplies (without pump), per day	Procedure	HCPCS
S9494	Home infusion therapy, antibiotic, antiviral, or antifungal therapy; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem (do not use this code with home infusion codes for hourly dosing schedules S9497-S9504)	Procedure	HCPCS
S9497	Home infusion therapy, antibiotic, antiviral, or antifungal therapy; once every 3 hours; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
S9500	Home infusion therapy, antibiotic, antiviral, or antifungal therapy; once every 24 hours; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
S9501	Home infusion therapy, antibiotic, antiviral, or antifungal therapy; once every 12 hours; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS

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Code	Description	Code Category	Code Type
S9502	Home infusion therapy, antibiotic, antiviral, or antifungal therapy; once every 8 hours, administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
S9503	Home infusion therapy, antibiotic, antiviral, or antifungal; once every 6 hours; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
S9504	Home infusion therapy, antibiotic, antiviral, or antifungal; once every 4 hours; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
S9539	Administration of antibiotics, intravenously, in the home setting, including all nursing care, equipment, and supplies; per diem	Procedure	HCPCS
XW03321	Introduction of Ceftazidime-Avibactam Anti-infective into Peripheral Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW03341	Introduction of Isavuconazole Anti-infective into Peripheral Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW04321	Introduction of Ceftazidime-Avibactam Anti-infective into Central Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW04341	Introduction of Isavuconazole Anti-infective into Central Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
Cefotaxime			
J0698	Injection, cefotaxime sodium, per g	Procedure	HCPCS
Corticosteroid Administration			
4135F	Systemic corticosteroids prescribed (OME)	Procedure	CPT-2
83491	Hydroxycorticosteroids, 17- (17-OHCS)	Procedure	CPT-4
G8859	Patient receiving corticosteroids greater than or equal to 10 mg/day for 60 or greater consecutive days	Procedure	HCPCS
G8860	Patients who have received dose of corticosteroids greater than or equal to 10 mg/day for 60 or greater consecutive days	Procedure	HCPCS
G9467	Patients who have received or are receiving corticosteroids greater than or equal to 10 mg/day of prednisone equivalents for 60 or greater consecutive days or a single prescription equating to 600 mg prednisone or greater for all fills within the last twelve months	Procedure	HCPCS
G9469	Patients who have received or are receiving corticosteroids greater than or equal to 10 mg/day of prednisone equivalents for 90 or greater consecutive days or a single prescription equating to 900 mg prednisone or greater for all fills	Procedure	HCPCS
J0702	Injection, betamethasone acetate 3 mg and betamethasone sodium phosphate 3 mg	Procedure	HCPCS
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J1094	Injection, dexamethasone acetate, 1 mg	Procedure	HCPCS
J1100	Injection, dexamethasone sodium phosphate, 1 mg	Procedure	HCPCS
J1700	Injection, hydrocortisone acetate, up to 25 mg	Procedure	HCPCS
J1710	Injection, hydrocortisone sodium phosphate, up to 50 mg	Procedure	HCPCS
J1720	Injection, hydrocortisone sodium succinate, up to 100 mg	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J3300	Injection, triamcinolone acetonide, preservative free, 1 mg	Procedure	HCPCS
J3301	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	Procedure	HCPCS
J3302	Injection, triamcinolone diacetate, per 5 mg	Procedure	HCPCS
J3303	Injection, triamcinolone hexacetonide, per 5 mg	Procedure	HCPCS
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
J7510	Prednisolone, oral, per 5 mg	Procedure	HCPCS
J7512	Prednisone, immediate release or delayed release, oral, 1 mg	Procedure	HCPCS
S9490	Home infusion therapy, corticosteroid infusion; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
Surfactant Administration			
94610	Intrapulmonary surfactant administration by a physician or other qualified health care professional through endotracheal tube	Procedure	CPT-4
Gentamicin Administration			
J1580	Injection, garamycin, gentamicin, up to 80 mg	Procedure	HCPCS
Opioid Administration			
0078U	Pain management (opioid-use disorder) genotyping panel, 16 common variants (ie, ABCB1, COMT, DAT1, DBH, DOR, DRD1, DRD2, DRD4, GABA, GAL, HTR2A, HTTLPR, MTHFR, MUOR, OPRK1, OPRM1), buccal swab or other germline tissue sample, algorithm reported as positive or negative risk of opioid-use disorder	Procedure	CPT-4
4306F	Patient counseled regarding psychosocial and pharmacologic treatment options for opioid addiction (SUD)	Procedure	CPT-2
80362	Opioids and opiate analogs; 1 or 2	Procedure	CPT-4
80363	Opioids and opiate analogs; 3 or 4	Procedure	CPT-4
80364	Opioids and opiate analogs; 5 or more	Procedure	CPT-4
G9562	Patients who had a follow-up evaluation conducted at least every three months during opioid therapy	Procedure	HCPCS
G9578	Documentation of signed opioid treatment agreement at least once during opioid therapy	Procedure	HCPCS
J0570	Buprenorphine implant, 74.2 mg	Procedure	HCPCS
J0571	Buprenorphine, oral, 1 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J0572	Buprenorphine/naloxone, oral, less than or equal to 3 mg buprenorphine	Procedure	HCPCS
J0573	Buprenorphine/naloxone, oral, greater than 3 mg, but less than or equal to 6 mg buprenorphine	Procedure	HCPCS
J0574	Buprenorphine/naloxone, oral, greater than 6 mg, but less than or equal to 10 mg buprenorphine	Procedure	HCPCS
J0575	Buprenorphine/naloxone, oral, greater than 10 mg buprenorphine	Procedure	HCPCS
J0592	Injection, buprenorphine HCl, 0.1 mg	Procedure	HCPCS
J0595	Injection, butorphanol tartrate, 1 mg	Procedure	HCPCS
J0745	Injection, codeine phosphate, per 30 mg	Procedure	HCPCS
J1230	Injection, methadone HCl, up to 10 mg	Procedure	HCPCS
J1960	Injection, levorphanol tartrate, up to 2 mg	Procedure	HCPCS
J2175	Injection, meperidine HCl, per 100 mg	Procedure	HCPCS
J2180	Injection, meperidine and promethazine HCl, up to 50 mg	Procedure	HCPCS
J2270	Injection, morphine sulfate, up to 10 mg	Procedure	HCPCS
J2274	Injection, morphine sulfate, preservative free for epidural or intrathecal use, 10 mg	Procedure	HCPCS
J2410	Injection, oxymorphone HCl, up to 1 mg	Procedure	HCPCS
J3010	Injection, fentanyl citrate, 0.1 mg	Procedure	HCPCS
J3070	Injection, pentazocine, 30 mg	Procedure	HCPCS
Vitamin K Administration			
J3430	Injection, phytonadione (vitamin K), per 1 mg	Procedure	HCPCS
Hepatitis B Vaccine			
00006409301	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409302	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409309	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409401	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409402	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409406	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409409	hepatitis B virus vaccine recombinant/PF	RX	ND
00006409431	hepatitis B virus vaccine recombinant/PF	RX	ND
00006476900	hepatitis B virus vaccine, recombinant	RX	ND
00006477300	hepatitis B virus vaccine, recombinant	RX	ND
00006477500	hepatitis B virus vaccine, recombinant	RX	ND
00006477600	hepatitis B virus vaccine, recombinant	RX	ND
00006484300	Hepatitis B Virus, Rec& Haemoph B Polysac Conj-Mening Vaccine	RX	ND
00006484800	hepatitis B virus vaccine, recombinant	RX	ND
00006484900	hepatitis B virus vaccine, recombinant	RX	ND
00006487200	hepatitis B virus vaccine, recombinant	RX	ND
00006487300	hepatitis B virus vaccine, recombinant	RX	ND
00006487600	hepatitis B virus vaccine, recombinant	RX	ND
00006489800	hepatitis B virus vaccine/Haemoph B polysac conj-mening/PF	RX	ND
00006489801	hepatitis B virus vaccine/Haemoph B polysac conj-mening/PF	RX	ND

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Code	Description	Code Category	Code Type
00006496900	hepatitis B virus vaccine, recombinant	RX	ND
00006498000	hepatitis B virus vaccine, recombinant	RX	ND
00006498100	hepatitis B virus vaccine recombinant/PF	RX	ND
00006498101	hepatitis B virus vaccine recombinant/PF	RX	ND
00006499200	hepatitis B virus vaccine recombinant/PF	RX	ND
00006499201	hepatitis B virus vaccine recombinant/PF	RX	ND
00006499500	hepatitis B virus vaccine recombinant/PF	RX	ND
00006499501	hepatitis B virus vaccine recombinant/PF	RX	ND
00006499541	hepatitis B virus vaccine recombinant/PF	RX	ND
43528000201	hepatitis B vaccine recombinant/vaccine adjuvant CpG 1018/PF	RX	ND
43528000205	hepatitis B vaccine recombinant/vaccine adjuvant CpG 1018/PF	RX	ND
43528000301	hepatitis B vaccine recombinant/vaccine adjuvant CpG 1018/PF	RX	ND
43528000305	hepatitis B vaccine recombinant/vaccine adjuvant CpG 1018/PF	RX	ND
54569209100	hepatitis B virus vaccine, recombinant	RX	ND
54569263000	hepatitis B virus vaccine, recombinant	RX	ND
54569279000	hepatitis B virus vaccine, recombinant	RX	ND
54569314200	hepatitis B virus vaccine, recombinant	RX	ND
54569364400	hepatitis B virus vaccine, recombinant	RX	ND
54569388800	hepatitis B virus vaccine, recombinant	RX	ND
54569405000	hepatitis B virus vaccine, recombinant	RX	ND
54569421300	hepatitis B virus vaccine, recombinant	RX	ND
54569472900	hepatitis B virus vaccine, recombinant	RX	ND
54569521600	Hepatitis B Virus, Rec& Haemoph B Polysac Conj-Mening Vaccine	RX	ND
54569521700	hepatitis B virus vaccine/Haemoph B polysac conj-mening/PF	RX	ND
54569526800	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
54569529200	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
54569531100	hepatitis B virus vaccine recombinant/PF	RX	ND
54569557800	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
54569562800	hepatitis B virus vaccine, recombinant	RX	ND
54569562900	hepatitis B virus vaccine recombinant/PF	RX	ND
54569563000	hepatitis B virus vaccine recombinant/PF	RX	ND
54868073400	hepatitis B virus vaccine, recombinant	RX	ND
54868221900	hepatitis B virus vaccine recombinant/PF	RX	ND
54868221901	hepatitis B virus vaccine recombinant/PF	RX	ND
54868323600	hepatitis B virus vaccine recombinant/PF	RX	ND
54868478100	hepatitis B virus vaccine recombinant/PF	RX	ND
58160081111	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081141	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081143	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081146	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081151	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND
58160081152	hep B virus,rcmb/diphth,pertus(acell),tet,polio vaccine/PF	RX	ND

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Code	Description	Code Category	Code Type
58160081501	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081511	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081532	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081543	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081546	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081548	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160081552	hepatitis A virus and hepatitis B virus vaccine/PF	RX	ND
58160082001	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082011	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082043	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082046	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082051	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082052	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082101	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082111	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082132	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082143	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082146	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082148	hepatitis B virus vaccine recombinant/PF	RX	ND
58160082152	hepatitis B virus vaccine recombinant/PF	RX	ND
58160084111	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
58160084146	Hepatitis B Virus,Rcmb/Diphth,Pertus(Acell),Tet,Polio Vaccine	RX	ND
58160085001	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085011	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085035	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085046	hepatitis A virus vaccine/hepatitis B virus vaccine	RX	ND
58160085601	hepatitis B virus vaccine recombinant/PF	RX	ND
58160085611	hepatitis B virus vaccine recombinant/PF	RX	ND
58160085626	hepatitis B virus vaccine, recombinant	RX	ND
58160085627	hepatitis B virus vaccine, recombinant	RX	ND
58160085635	hepatitis B virus vaccine, recombinant	RX	ND
58160085636	hepatitis B virus vaccine, recombinant	RX	ND
58160085646	hepatitis B virus vaccine, recombinant	RX	ND
58160085650	hepatitis B virus vaccine, recombinant	RX	ND
58160085656	hepatitis B virus vaccine, recombinant	RX	ND
58160085657	hepatitis B virus vaccine, recombinant	RX	ND
58160085658	hepatitis B virus vaccine, recombinant	RX	ND
58160085701	hepatitis B virus vaccine, recombinant	RX	ND
58160085711	hepatitis B virus vaccine, recombinant	RX	ND
58160085716	hepatitis B virus vaccine, recombinant	RX	ND
58160085726	hepatitis B virus vaccine, recombinant	RX	ND
58160085735	hepatitis B virus vaccine, recombinant	RX	ND

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
58160085746	hepatitis B virus vaccine, recombinant	RX	ND
58160085750	hepatitis B virus vaccine, recombinant	RX	ND
58160085901	hepatitis B virus vaccine, recombinant	RX	ND
58160085905	hepatitis B virus vaccine, recombinant	RX	ND
58160085911	hepatitis B virus vaccine, recombinant	RX	ND
58160085926	hepatitis B virus vaccine, recombinant	RX	ND
58160085927	hepatitis B virus vaccine, recombinant	RX	ND
58160085935	hepatitis B virus vaccine, recombinant	RX	ND
58160085936	hepatitis B virus vaccine, recombinant	RX	ND
58160086001	hepatitis B virus vaccine, recombinant	RX	ND
58160086016	hepatitis B virus vaccine, recombinant	RX	ND
58160086126	hepatitis B virus vaccine, recombinant	RX	ND
58160086135	hepatitis B virus vaccine, recombinant	RX	ND
58160086201	hepatitis B virus vaccine, recombinant	RX	ND
90636	Hepatitis A and hepatitis B vaccine (HepA-HepB), adult dosage, for intramuscular use	Procedure	CPT-4
90697	Diphtheria, tetanus toxoids, acellular pertussis vaccine, inactivated poliovirus vaccine, Haemophilus influenzae type b PRP-OMP conjugate vaccine, and hepatitis B vaccine (DTaP-IPV-Hib-HepB), for intramuscular use	Procedure	CPT-4
90723	Diphtheria, tetanus toxoids, acellular pertussis vaccine, hepatitis B, and inactivated poliovirus vaccine (DTaP-HepB-IPV), for intramuscular use	Procedure	CPT-4
90739	Hepatitis B vaccine (HepB), adult dosage, 2 dose schedule, for intramuscular use	Procedure	CPT-4
90740	Hepatitis B vaccine (HepB), dialysis or immunosuppressed patient dosage, 3 dose schedule, for intramuscular use	Procedure	CPT-4
90743	Hepatitis B vaccine (HepB), adolescent, 2 dose schedule, for intramuscular use	Procedure	CPT-4
90744	Hepatitis B vaccine (HepB), pediatric/adolescent dosage, 3 dose schedule, for intramuscular use	Procedure	CPT-4
90746	Hepatitis B vaccine (HepB), adult dosage, 3 dose schedule, for intramuscular use	Procedure	CPT-4
90747	Hepatitis B vaccine (HepB), dialysis or immunosuppressed patient dosage, 4 dose schedule, for intramuscular use	Procedure	CPT-4
90748	Hepatitis B and Haemophilus influenzae type b vaccine (Hib-HepB), for intramuscular use	Procedure	CPT-4
Allergies			
472.0	Chronic rhinitis	Diagnosis	ICD-9-CM
472.2	Chronic nasopharyngitis	Diagnosis	ICD-9-CM
477.0	Rhinitis due to pollen	Diagnosis	ICD-9-CM
477.1	Allergic rhinitis-food	Diagnosis	ICD-9-CM
477.2	Allergic rhinitis-cat/dog	Diagnosis	ICD-9-CM
477.8	Allergic rhinitis NEC	Diagnosis	ICD-9-CM
477.9	Allergic rhinitis NOS	Diagnosis	ICD-9-CM
478.8	Upper respiratory tract hypersensitivity reaction, site unspecified	Diagnosis	ICD-9-CM
525.66	Allergy to existing dental restorative material	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
995.0	Other anaphylactic reaction	Diagnosis	ICD-9-CM
995.27	Other drug allergy	Diagnosis	ICD-9-CM
995.3	Allergy, unspecified not elsewhere classified	Diagnosis	ICD-9-CM
995.6	Anaphylactic reaction due to food	Diagnosis	ICD-9-CM
995.60	Anaphylactic reaction due to unspecified food	Diagnosis	ICD-9-CM
995.61	Anaphylactic reaction due to peanuts	Diagnosis	ICD-9-CM
995.62	Anaphylactic reaction due to crustaceans	Diagnosis	ICD-9-CM
995.63	Anaphylactic reaction due to fruits and vegetables	Diagnosis	ICD-9-CM
995.64	Anaphylactic reaction due to tree nuts and seeds	Diagnosis	ICD-9-CM
995.65	Anaphylactic reaction due to fish	Diagnosis	ICD-9-CM
995.66	Anaphylactic reaction due to food additives	Diagnosis	ICD-9-CM
995.67	Anaphylactic reaction due to milk products	Diagnosis	ICD-9-CM
995.68	Anaphylactic reaction due to eggs	Diagnosis	ICD-9-CM
995.69	Anaphylactic reaction due to other specified food	Diagnosis	ICD-9-CM
999.4	Anaphylactic reaction due to serum	Diagnosis	ICD-9-CM
999.41	Anaphylactic reaction due to administration of blood and blood products	Diagnosis	ICD-9-CM
999.42	Anaphylactic reaction due to vaccination	Diagnosis	ICD-9-CM
999.49	Anaphylactic reaction due to other serum	Diagnosis	ICD-9-CM
J30.0	Vasomotor rhinitis	Diagnosis	ICD-10-CM
J30.1	Allergic rhinitis due to pollen	Diagnosis	ICD-10-CM
J30.2	Other seasonal allergic rhinitis	Diagnosis	ICD-10-CM
J30.5	Allergic rhinitis due to food	Diagnosis	ICD-10-CM
J30.81	Allergic rhinitis due to animal (cat) (dog) hair and dander	Diagnosis	ICD-10-CM
J30.89	Other allergic rhinitis	Diagnosis	ICD-10-CM
J30.9	Allergic rhinitis, unspecified	Diagnosis	ICD-10-CM
J31.0	Chronic rhinitis	Diagnosis	ICD-10-CM
J31.1	Chronic nasopharyngitis	Diagnosis	ICD-10-CM
J39.3	Upper respiratory tract hypersensitivity reaction, site unspecified	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
L20.0	Besnier's prurigo	Diagnosis	ICD-10-CM
L20.81	Atopic neurodermatitis	Diagnosis	ICD-10-CM
L20.82	Flexural eczema	Diagnosis	ICD-10-CM
L20.84	Intrinsic (allergic) eczema	Diagnosis	ICD-10-CM
L20.89	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.9	Atopic dermatitis, unspecified	Diagnosis	ICD-10-CM
L22	Diaper dermatitis	Diagnosis	ICD-10-CM
L23.0	Allergic contact dermatitis due to metals	Diagnosis	ICD-10-CM
L23.1	Allergic contact dermatitis due to adhesives	Diagnosis	ICD-10-CM
L23.2	Allergic contact dermatitis due to cosmetics	Diagnosis	ICD-10-CM
L23.3	Allergic contact dermatitis due to drugs in contact with skin	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
L23.4	Allergic contact dermatitis due to dyes	Diagnosis	ICD-10-CM
L23.5	Allergic contact dermatitis due to other chemical products	Diagnosis	ICD-10-CM
L23.6	Allergic contact dermatitis due to food in contact with the skin	Diagnosis	ICD-10-CM
L23.7	Allergic contact dermatitis due to plants, except food	Diagnosis	ICD-10-CM
L23.81	Allergic contact dermatitis due to animal (cat) (dog) dander	Diagnosis	ICD-10-CM
L23.89	Allergic contact dermatitis due to other agents	Diagnosis	ICD-10-CM
L23.9	Allergic contact dermatitis, unspecified cause	Diagnosis	ICD-10-CM
L24.0	Irritant contact dermatitis due to detergents	Diagnosis	ICD-10-CM
L24.1	Irritant contact dermatitis due to oils and greases	Diagnosis	ICD-10-CM
L24.2	Irritant contact dermatitis due to solvents	Diagnosis	ICD-10-CM
L24.3	Irritant contact dermatitis due to cosmetics	Diagnosis	ICD-10-CM
L24.4	Irritant contact dermatitis due to drugs in contact with skin	Diagnosis	ICD-10-CM
L24.5	Irritant contact dermatitis due to other chemical products	Diagnosis	ICD-10-CM
L24.6	Irritant contact dermatitis due to food in contact with skin	Diagnosis	ICD-10-CM
L24.7	Irritant contact dermatitis due to plants, except food	Diagnosis	ICD-10-CM
L24.81	Irritant contact dermatitis due to metals	Diagnosis	ICD-10-CM
L24.89	Irritant contact dermatitis due to other agents	Diagnosis	ICD-10-CM
L24.9	Irritant contact dermatitis, unspecified cause	Diagnosis	ICD-10-CM
L25.0	Unspecified contact dermatitis due to cosmetics	Diagnosis	ICD-10-CM
L25.1	Unspecified contact dermatitis due to drugs in contact with skin	Diagnosis	ICD-10-CM
L25.2	Unspecified contact dermatitis due to dyes	Diagnosis	ICD-10-CM
L25.3	Unspecified contact dermatitis due to other chemical products	Diagnosis	ICD-10-CM
L25.4	Unspecified contact dermatitis due to food in contact with skin	Diagnosis	ICD-10-CM
L25.5	Unspecified contact dermatitis due to plants, except food	Diagnosis	ICD-10-CM
L25.8	Unspecified contact dermatitis due to other agents	Diagnosis	ICD-10-CM
L25.9	Unspecified contact dermatitis, unspecified cause	Diagnosis	ICD-10-CM
L27.0	Generalized skin eruption due to drugs and medicaments taken internally	Diagnosis	ICD-10-CM
L27.1	Localized skin eruption due to drugs and medicaments taken internally	Diagnosis	ICD-10-CM
L27.2	Dermatitis due to ingested food	Diagnosis	ICD-10-CM
L27.8	Dermatitis due to other substances taken internally	Diagnosis	ICD-10-CM
L27.9	Dermatitis due to unspecified substance taken internally	Diagnosis	ICD-10-CM
L50.0	Allergic urticaria	Diagnosis	ICD-10-CM
L50.1	Idiopathic urticaria	Diagnosis	ICD-10-CM
L50.2	Urticaria due to cold and heat	Diagnosis	ICD-10-CM
L50.3	Dermatographic urticaria	Diagnosis	ICD-10-CM
L50.4	Vibratory urticaria	Diagnosis	ICD-10-CM
L50.5	Cholinergic urticaria	Diagnosis	ICD-10-CM
L50.6	Contact urticaria	Diagnosis	ICD-10-CM
L50.8	Other urticaria	Diagnosis	ICD-10-CM
L50.9	Urticaria, unspecified	Diagnosis	ICD-10-CM
L56.1	Drug photoallergic response	Diagnosis	ICD-10-CM
T78.0	Anaphylactic reaction due to food	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
T78.00	Anaphylactic reaction due to unspecified food	Diagnosis	ICD-10-CM
T78.00XA	Anaphylactic reaction due to unspecified food, initial encounter	Diagnosis	ICD-10-CM
T78.00XD	Anaphylactic reaction due to unspecified food, subsequent encounter	Diagnosis	ICD-10-CM
T78.00XS	Anaphylactic reaction due to unspecified food, sequela	Diagnosis	ICD-10-CM
T78.01	Anaphylactic reaction due to peanuts	Diagnosis	ICD-10-CM
T78.01XA	Anaphylactic reaction due to peanuts, initial encounter	Diagnosis	ICD-10-CM
T78.01XD	Anaphylactic reaction due to peanuts, subsequent encounter	Diagnosis	ICD-10-CM
T78.01XS	Anaphylactic reaction due to peanuts, sequela	Diagnosis	ICD-10-CM
T78.02	Anaphylactic reaction due to shellfish (crustaceans)	Diagnosis	ICD-10-CM
T78.02XA	Anaphylactic reaction due to shellfish (crustaceans), initial encounter	Diagnosis	ICD-10-CM
T78.02XD	Anaphylactic reaction due to shellfish (crustaceans), subsequent encounter	Diagnosis	ICD-10-CM
T78.02XS	Anaphylactic reaction due to shellfish (crustaceans), sequela	Diagnosis	ICD-10-CM
T78.03	Anaphylactic reaction due to other fish	Diagnosis	ICD-10-CM
T78.03XA	Anaphylactic reaction due to other fish, initial encounter	Diagnosis	ICD-10-CM
T78.03XD	Anaphylactic reaction due to other fish, subsequent encounter	Diagnosis	ICD-10-CM
T78.03XS	Anaphylactic reaction due to other fish, sequela	Diagnosis	ICD-10-CM
T78.04	Anaphylactic reaction due to fruits and vegetables	Diagnosis	ICD-10-CM
T78.04XA	Anaphylactic reaction due to fruits and vegetables, initial encounter	Diagnosis	ICD-10-CM
T78.04XD	Anaphylactic reaction due to fruits and vegetables, subsequent encounter	Diagnosis	ICD-10-CM
T78.04XS	Anaphylactic reaction due to fruits and vegetables, sequela	Diagnosis	ICD-10-CM
T78.05	Anaphylactic reaction due to tree nuts and seeds	Diagnosis	ICD-10-CM
T78.05XA	Anaphylactic reaction due to tree nuts and seeds, initial encounter	Diagnosis	ICD-10-CM
T78.05XD	Anaphylactic reaction due to tree nuts and seeds, subsequent encounter	Diagnosis	ICD-10-CM
T78.05XS	Anaphylactic reaction due to tree nuts and seeds, sequela	Diagnosis	ICD-10-CM
T78.06	Anaphylactic reaction due to food additives	Diagnosis	ICD-10-CM
T78.06XA	Anaphylactic reaction due to food additives, initial encounter	Diagnosis	ICD-10-CM
T78.06XD	Anaphylactic reaction due to food additives, subsequent encounter	Diagnosis	ICD-10-CM
T78.06XS	Anaphylactic reaction due to food additives, sequela	Diagnosis	ICD-10-CM
T78.07	Anaphylactic reaction due to milk and dairy products	Diagnosis	ICD-10-CM
T78.07XA	Anaphylactic reaction due to milk and dairy products, initial encounter	Diagnosis	ICD-10-CM
T78.07XD	Anaphylactic reaction due to milk and dairy products, subsequent encounter	Diagnosis	ICD-10-CM
T78.07XS	Anaphylactic reaction due to milk and dairy products, sequela	Diagnosis	ICD-10-CM
T78.08	Anaphylactic reaction due to eggs	Diagnosis	ICD-10-CM
T78.08XA	Anaphylactic reaction due to eggs, initial encounter	Diagnosis	ICD-10-CM
T78.08XD	Anaphylactic reaction due to eggs, subsequent encounter	Diagnosis	ICD-10-CM
T78.08XS	Anaphylactic reaction due to eggs, sequela	Diagnosis	ICD-10-CM
T78.09	Anaphylactic reaction due to other food products	Diagnosis	ICD-10-CM
T78.09XA	Anaphylactic reaction due to other food products, initial encounter	Diagnosis	ICD-10-CM
T78.09XD	Anaphylactic reaction due to other food products, subsequent encounter	Diagnosis	ICD-10-CM
T78.09XS	Anaphylactic reaction due to other food products, sequela	Diagnosis	ICD-10-CM
T78.1XXA	Other adverse food reactions, not elsewhere classified, initial encounter	Diagnosis	ICD-10-CM
T78.2	Anaphylactic shock, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
T78.2XXA	Anaphylactic shock, unspecified, initial encounter	Diagnosis	ICD-10-CM
T78.2XXD	Anaphylactic shock, unspecified, subsequent encounter	Diagnosis	ICD-10-CM
T78.2XXS	Anaphylactic shock, unspecified, sequela	Diagnosis	ICD-10-CM
T78.40	Allergy, unspecified	Diagnosis	ICD-10-CM
T78.40XD	Allergy, unspecified, subsequent encounter	Diagnosis	ICD-10-CM
T78.40XS	Allergy, unspecified, sequela	Diagnosis	ICD-10-CM
T80.5	Anaphylactic reaction due to serum	Diagnosis	ICD-10-CM
T80.51	Anaphylactic reaction due to administration of blood and blood products	Diagnosis	ICD-10-CM
T80.51XA	Anaphylactic reaction due to administration of blood and blood products, initial encounter	Diagnosis	ICD-10-CM
T80.51XD	Anaphylactic reaction due to administration of blood and blood products, subsequent encounter	Diagnosis	ICD-10-CM
T80.51XS	Anaphylactic reaction due to administration of blood and blood products, sequela	Diagnosis	ICD-10-CM
T80.52	Anaphylactic reaction due to vaccination	Diagnosis	ICD-10-CM
T80.52XA	Anaphylactic reaction due to vaccination, initial encounter	Diagnosis	ICD-10-CM
T80.52XD	Anaphylactic reaction due to vaccination, subsequent encounter	Diagnosis	ICD-10-CM
T80.52XS	Anaphylactic reaction due to vaccination, sequela	Diagnosis	ICD-10-CM
T80.59	Anaphylactic reaction due to other serum	Diagnosis	ICD-10-CM
T80.59XA	Anaphylactic reaction due to other serum, initial encounter	Diagnosis	ICD-10-CM
T80.59XD	Anaphylactic reaction due to other serum, subsequent encounter	Diagnosis	ICD-10-CM
T80.59XS	Anaphylactic reaction due to other serum, sequela	Diagnosis	ICD-10-CM
T88.6	Anaphylactic reaction due to adverse effect of correct drug or medication properly administered	Diagnosis	ICD-10-CM
T88.6XXA	Anaphylactic reaction due to adverse effect of correct drug or medication properly administered, initial encounter	Diagnosis	ICD-10-CM
T88.6XXD	Anaphylactic reaction due to adverse effect of correct drug or medication properly administered, subsequent encounter	Diagnosis	ICD-10-CM
T88.6XXS	Anaphylactic reaction due to adverse effect of correct drug or medication properly administered, sequela	Diagnosis	ICD-10-CM
V13.81	Personal history of anaphylaxis	Diagnosis	ICD-9-CM
V14	Personal history of allergy to medicinal agents	Diagnosis	ICD-9-CM
V14.0	Personal history of allergy to penicillin	Diagnosis	ICD-9-CM
V14.1	Personal history of allergy to other antibiotic agent	Diagnosis	ICD-9-CM
V14.2	Personal history of allergy to sulfonamides	Diagnosis	ICD-9-CM
V14.3	Personal history of allergy to other anti-infective agent	Diagnosis	ICD-9-CM
V14.4	Personal history of allergy to anesthetic agent	Diagnosis	ICD-9-CM
V14.5	Personal history of allergy to narcotic agent	Diagnosis	ICD-9-CM
V14.6	Personal history of allergy to analgesic agent	Diagnosis	ICD-9-CM
V14.7	Personal history of allergy to serum or vaccine	Diagnosis	ICD-9-CM
V14.8	Personal history of allergy to other specified medicinal agents	Diagnosis	ICD-9-CM
V14.9	Personal history of allergy to unspecified medicinal agent	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V15.0	Personal history of allergy, other than to medicinal agents, presenting hazards to health	Diagnosis	ICD-9-CM
V15.01	Personal history of allergy to peanuts	Diagnosis	ICD-9-CM
V15.02	Personal history of allergy to milk products	Diagnosis	ICD-9-CM
V15.03	Personal history of allergy to eggs	Diagnosis	ICD-9-CM
V15.04	Personal history of allergy to seafood	Diagnosis	ICD-9-CM
V15.05	Personal history of allergy to other foods	Diagnosis	ICD-9-CM
V15.06	Allergy to insects and arachnids	Diagnosis	ICD-9-CM
V15.07	Personal history of allergy to latex	Diagnosis	ICD-9-CM
V15.08	Personal history of allergy to radiographic dye	Diagnosis	ICD-9-CM
V15.09	Personal history of other allergy, other than to medicinal agents	Diagnosis	ICD-9-CM
V64.04	Vaccination not carried out because of allergy to vaccine or component	Diagnosis	ICD-9-CM
Z01.82	Encounter for allergy testing	Diagnosis	ICD-10-CM
Z01.89	Encounter for other specified special examinations	Diagnosis	ICD-10-CM
Z51.6	Encounter for desensitization to allergens	Diagnosis	ICD-10-CM
Z87.892	Personal history of anaphylaxis	Diagnosis	ICD-10-CM
Z91.0	Allergy status, other than to drugs and biological substances	Diagnosis	ICD-10-CM
Z91.01	Food allergy status	Diagnosis	ICD-10-CM
Z91.03	Insect allergy status	Diagnosis	ICD-10-CM
Z91.04	Nonmedicinal substance allergy status	Diagnosis	ICD-10-CM
Anemia			
280.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-9-CM
280.1	Iron deficiency anemia secondary to inadequate dietary iron intake	Diagnosis	ICD-9-CM
280.8	Other specified iron deficiency anemias	Diagnosis	ICD-9-CM
280.9	Unspecified iron deficiency anemia	Diagnosis	ICD-9-CM
281.0	Pernicious anemia	Diagnosis	ICD-9-CM
281.1	Other vitamin B12 deficiency anemia	Diagnosis	ICD-9-CM
281.2	Folate-deficiency anemia	Diagnosis	ICD-9-CM
281.3	Other specified megaloblastic anemias not elsewhere classified	Diagnosis	ICD-9-CM
281.4	Protein-deficiency anemia	Diagnosis	ICD-9-CM
281.8	Anemia associated with other specified nutritional deficiency	Diagnosis	ICD-9-CM
281.9	Unspecified deficiency anemia	Diagnosis	ICD-9-CM
282.0	Hereditary spherocytosis	Diagnosis	ICD-9-CM
282.1	Hereditary elliptocytosis	Diagnosis	ICD-9-CM
282.2	Anemias due to disorders of glutathione metabolism	Diagnosis	ICD-9-CM
282.3	Other hemolytic anemias due to enzyme deficiency	Diagnosis	ICD-9-CM
282.40	Thalassemia, unspecified	Diagnosis	ICD-9-CM
282.41	Sickle-cell thalassemia without crisis	Diagnosis	ICD-9-CM
282.42	Sickle-cell thalassemia with crisis	Diagnosis	ICD-9-CM
282.43	Alpha thalassemia	Diagnosis	ICD-9-CM
282.44	Beta thalassemia	Diagnosis	ICD-9-CM
282.45	Delta-beta thalassemia	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
282.46	Thalassemia minor	Diagnosis	ICD-9-CM
282.47	Hemoglobin E-beta thalassemia	Diagnosis	ICD-9-CM
282.49	Other thalassemia	Diagnosis	ICD-9-CM
282.5	Sickle-cell trait	Diagnosis	ICD-9-CM
282.60	Sickle-cell disease, unspecified	Diagnosis	ICD-9-CM
282.61	Hb-SS disease without crisis	Diagnosis	ICD-9-CM
282.62	Hb-SS disease with crisis	Diagnosis	ICD-9-CM
282.63	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-9-CM
282.64	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-9-CM
282.68	Other sickle-cell disease without crisis	Diagnosis	ICD-9-CM
282.69	Other sickle-cell disease with crisis	Diagnosis	ICD-9-CM
282.7	Other hemoglobinopathies	Diagnosis	ICD-9-CM
282.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-9-CM
282.9	Unspecified hereditary hemolytic anemia	Diagnosis	ICD-9-CM
283.0	Autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
283.10	Unspecified non-autoimmune hemolytic anemia	Diagnosis	ICD-9-CM
283.11	Hemolytic-uremic syndrome	Diagnosis	ICD-9-CM
283.19	Other non-autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
283.2	Hemoglobinuria due to hemolysis from external causes	Diagnosis	ICD-9-CM
283.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-9-CM
284.01	Constitutional red blood cell aplasia	Diagnosis	ICD-9-CM
284.09	Other constitutional aplastic anemia	Diagnosis	ICD-9-CM
284.11	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-9-CM
284.12	Other drug induced pancytopenia	Diagnosis	ICD-9-CM
284.19	Other pancytopenia	Diagnosis	ICD-9-CM
284.2	Myelophthisis	Diagnosis	ICD-9-CM
284.81	Red cell aplasia (acquired) (adult) (with thymoma)	Diagnosis	ICD-9-CM
284.89	Other specified aplastic anemias	Diagnosis	ICD-9-CM
284.9	Unspecified aplastic anemia	Diagnosis	ICD-9-CM
285.0	Sideroblastic anemia	Diagnosis	ICD-9-CM
285.1	Acute posthemorrhagic anemia	Diagnosis	ICD-9-CM
285.21	Anemia in chronic kidney disease	Diagnosis	ICD-9-CM
285.22	Anemia in neoplastic disease	Diagnosis	ICD-9-CM
285.29	Anemia of other chronic disease	Diagnosis	ICD-9-CM
285.3	Antineoplastic chemotherapy induced anemia	Diagnosis	ICD-9-CM
285.8	Other specified anemias	Diagnosis	ICD-9-CM
285.9	Unspecified anemia	Diagnosis	ICD-9-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-10-CM
D50.1	Sideropenic dysphagia	Diagnosis	ICD-10-CM
D50.8	Other iron deficiency anemias	Diagnosis	ICD-10-CM
D50.9	Iron deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D51.1	Vitamin B12 deficiency anemia due to selective vitamin B12 malabsorption with proteinuria	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM
D51.3	Other dietary vitamin B12 deficiency anemia	Diagnosis	ICD-10-CM
D51.8	Other vitamin B12 deficiency anemias	Diagnosis	ICD-10-CM
D51.9	Vitamin B12 deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D52.0	Dietary folate deficiency anemia	Diagnosis	ICD-10-CM
D52.1	Drug-induced folate deficiency anemia	Diagnosis	ICD-10-CM
D52.8	Other folate deficiency anemias	Diagnosis	ICD-10-CM
D52.9	Folate deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D53.0	Protein deficiency anemia	Diagnosis	ICD-10-CM
D53.1	Other megaloblastic anemias, not elsewhere classified	Diagnosis	ICD-10-CM
D53.2	Scorbutic anemia	Diagnosis	ICD-10-CM
D53.8	Other specified nutritional anemias	Diagnosis	ICD-10-CM
D53.9	Nutritional anemia, 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
D55.2	Anemia due to disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.3	Anemia due to disorders of nucleotide metabolism	Diagnosis	ICD-10-CM
D55.8	Other anemias due to enzyme disorders	Diagnosis	ICD-10-CM
D55.9	Anemia due to enzyme disorder, unspecified	Diagnosis	ICD-10-CM
D56.0	Alpha thalassemia	Diagnosis	ICD-10-CM
D56.1	Beta thalassemia	Diagnosis	ICD-10-CM
D56.2	Delta-beta thalassemia	Diagnosis	ICD-10-CM
D56.3	Thalassemia minor	Diagnosis	ICD-10-CM
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	Diagnosis	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D56.8	Other thalassemias	Diagnosis	ICD-10-CM
D56.9	Thalassemia, unspecified	Diagnosis	ICD-10-CM
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
D57.1	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
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	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
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D58.0	Hereditary spherocytosis	Diagnosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	Diagnosis	ICD-10-CM
D58.2	Other hemoglobinopathies	Diagnosis	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	Diagnosis	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	Diagnosis	ICD-10-CM
D59.8	Other acquired hemolytic anemias	Diagnosis	ICD-10-CM
D59.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	Diagnosis	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D61.82	Myelophthisis	Diagnosis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM
D62	Acute posthemorrhagic anemia	Diagnosis	ICD-10-CM
D63.0	Anemia in neoplastic disease	Diagnosis	ICD-10-CM
D63.1	Anemia in chronic kidney disease	Diagnosis	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	Diagnosis	ICD-10-CM
D64.0	Hereditary sideroblastic 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
D64.3	Other sideroblastic anemias	Diagnosis	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D64.89	Other specified anemias	Diagnosis	ICD-10-CM
D64.9	Anemia, unspecified	Diagnosis	ICD-10-CM
Gastroesophageal Reflux Disease			
530.11	Reflux esophagitis	Diagnosis	ICD-9-CM
530.81	Esophageal reflux	Diagnosis	ICD-9-CM
K21.0	Gastro-esophageal reflux disease with esophagitis	Diagnosis	ICD-10-CM
K21.00	Gastro-esophageal reflux dis with esophagitis, without bleed	Diagnosis	ICD-10-CM
K21.01	Gastro-esophageal reflux dis with esophagitis, with bleed	Diagnosis	ICD-10-CM
K21.9	Gastro-esophageal reflux disease without esophagitis	Diagnosis	ICD-10-CM
P78.83	Newborn esophageal reflux	Diagnosis	ICD-10-CM
Brain Cancer			
C70.0	Malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM
C70.1	Malignant neoplasm of spinal meninges	Diagnosis	ICD-10-CM
C70.9	Malignant neoplasm of meninges, unspecified	Diagnosis	ICD-10-CM
C71.0	Malignant neoplasm of cerebrum, except lobes and ventricles	Diagnosis	ICD-10-CM
C71.1	Malignant neoplasm of frontal lobe	Diagnosis	ICD-10-CM
C71.2	Malignant neoplasm of temporal lobe	Diagnosis	ICD-10-CM
C71.3	Malignant neoplasm of parietal lobe	Diagnosis	ICD-10-CM
C71.4	Malignant neoplasm of occipital lobe	Diagnosis	ICD-10-CM
C71.5	Malignant neoplasm of cerebral ventricle	Diagnosis	ICD-10-CM
C71.6	Malignant neoplasm of cerebellum	Diagnosis	ICD-10-CM
C71.7	Malignant neoplasm of brain stem	Diagnosis	ICD-10-CM
C71.8	Malignant neoplasm of overlapping sites of brain	Diagnosis	ICD-10-CM
C71.9	Malignant neoplasm of brain, unspecified	Diagnosis	ICD-10-CM
C72.0	Malignant neoplasm of spinal cord	Diagnosis	ICD-10-CM
C72.1	Malignant neoplasm of cauda equina	Diagnosis	ICD-10-CM
Lymph Cancer			
200	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue	Diagnosis	ICD-9-CM
200.0	Reticulosarcoma	Diagnosis	ICD-9-CM
200.00	Reticulosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.01	Reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.02	Reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.03	Reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.04	Reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.05	Reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.06	Reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.07	Reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.08	Reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.1	Lymphosarcoma	Diagnosis	ICD-9-CM
200.10	Lymphosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
200.11	Lymphosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.12	Lymphosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.13	Lymphosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.14	Lymphosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.15	Lymphosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.16	Lymphosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.17	Lymphosarcoma of spleen	Diagnosis	ICD-9-CM
200.18	Lymphosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.2	Burkitt's tumor or lymphoma	Diagnosis	ICD-9-CM
200.20	Burkitt's tumor or lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.21	Burkitt's tumor or lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.22	Burkitt's tumor or lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.23	Burkitt's tumor or lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.24	Burkitt's tumor or lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.25	Burkitt's tumor or lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.26	Burkitt's tumor or lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.27	Burkitt's tumor or lymphoma of spleen	Diagnosis	ICD-9-CM
200.28	Burkitt's tumor or lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.3	Marginal zone lymphoma	Diagnosis	ICD-9-CM
200.30	Marginal zone lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.31	Marginal zone lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.32	Marginal zone lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.33	Marginal zone lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.34	Marginal zone lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.35	Marginal zone lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.36	Marginal zone lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.37	Marginal zone lymphoma, spleen	Diagnosis	ICD-9-CM
200.38	Marginal zone lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.4	Mantle cell lymphoma	Diagnosis	ICD-9-CM
200.40	Mantle cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.41	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.42	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.43	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.44	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.45	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.46	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.47	Mantle cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.48	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.5	Primary central nervous system lymphoma	Diagnosis	ICD-9-CM
200.50	Primary central nervous system lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
200.51	Primary central nervous system lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.52	Primary central nervous system lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.53	Primary central nervous system lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.54	Primary central nervous system lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.55	Primary central nervous system lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.56	Primary central nervous system lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.57	Primary central nervous system lymphoma, spleen	Diagnosis	ICD-9-CM
200.58	Primary central nervous system lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.6	Anaplastic large cell lymphoma	Diagnosis	ICD-9-CM
200.60	Anaplastic large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.61	Anaplastic large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.62	Anaplastic large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.63	Anaplastic large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.64	Anaplastic large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.65	Anaplastic large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.66	Anaplastic large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.67	Anaplastic large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.68	Anaplastic large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.7	Large cell lymphoma	Diagnosis	ICD-9-CM
200.70	Large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.71	Large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.72	Large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.73	Large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.74	Large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.75	Large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.76	Large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.77	Large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.78	Large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.8	Other named variants	Diagnosis	ICD-9-CM
200.8	Other named variants of lymphosarcoma and reticulosarcoma	Diagnosis	ICD-9-CM
200.80	Other named variants, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.81	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.82	Other named variants of lymphosarcoma and reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.83	Other named variants of lymphosarcoma and reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
200.84	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.85	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.86	Other named variants of lymphosarcoma and reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.87	Other named variants of lymphosarcoma and reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.88	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201	Hodgkin's disease	Diagnosis	ICD-9-CM
201.0	Hodgkin's paraganuloma	Diagnosis	ICD-9-CM
201.00	Hodgkin's paraganuloma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.01	Hodgkin's paraganuloma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.02	Hodgkin's paraganuloma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.03	Hodgkin's paraganuloma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.04	Hodgkin's paraganuloma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.05	Hodgkin's paraganuloma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.06	Hodgkin's paraganuloma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.07	Hodgkin's paraganuloma of spleen	Diagnosis	ICD-9-CM
201.08	Hodgkin's paraganuloma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.1	Hodgkin's granuloma	Diagnosis	ICD-9-CM
201.10	Hodgkin's granuloma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.11	Hodgkin's granuloma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.12	Hodgkin's granuloma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.13	Hodgkin's granuloma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.14	Hodgkin's granuloma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.15	Hodgkin's granuloma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.16	Hodgkin's granuloma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.17	Hodgkin's granuloma of spleen	Diagnosis	ICD-9-CM
201.18	Hodgkin's granuloma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.2	Hodgkin's sarcoma	Diagnosis	ICD-9-CM
201.20	Hodgkin's sarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.21	Hodgkin's sarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.22	Hodgkin's sarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.23	Hodgkin's sarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.24	Hodgkin's sarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.25	Hodgkin's sarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.26	Hodgkin's sarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.27	Hodgkin's sarcoma of spleen	Diagnosis	ICD-9-CM
201.28	Hodgkin's sarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.4	Hodgkin's disease, lymphocytic-histiocytic predominance	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
201.40	Hodgkin's disease, lymphocytic-histiocytic predominance, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.41	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.42	Hodgkin's disease, lymphocytic-histiocytic predominance of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.43	Hodgkin's disease, lymphocytic-histiocytic predominance of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.44	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.45	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.46	Hodgkin's disease, lymphocytic-histiocytic predominance of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.47	Hodgkin's disease, lymphocytic-histiocytic predominance of spleen	Diagnosis	ICD-9-CM
201.48	Hodgkin's disease, lymphocytic-histiocytic predominance of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.5	Hodgkin's disease, nodular sclerosis	Diagnosis	ICD-9-CM
201.50	Hodgkin's disease, nodular sclerosis, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.51	Hodgkin's disease, nodular sclerosis, of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.52	Hodgkin's disease, nodular sclerosis, of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.53	Hodgkin's disease, nodular sclerosis, of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.54	Hodgkin's disease, nodular sclerosis, of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.55	Hodgkin's disease, nodular sclerosis, of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.56	Hodgkin's disease, nodular sclerosis, of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.57	Hodgkin's disease, nodular sclerosis, of spleen	Diagnosis	ICD-9-CM
201.58	Hodgkin's disease, nodular sclerosis, of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.6	Hodgkin's disease, mixed cellularity	Diagnosis	ICD-9-CM
201.60	Hodgkin's disease, mixed cellularity, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.61	Hodgkin's disease, mixed cellularity, involving lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.62	Hodgkin's disease, mixed cellularity, of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.63	Hodgkin's disease, mixed cellularity, of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.64	Hodgkin's disease, mixed cellularity, of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.65	Hodgkin's disease, mixed cellularity, of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.66	Hodgkin's disease, mixed cellularity, of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.67	Hodgkin's disease, mixed cellularity, of spleen	Diagnosis	ICD-9-CM
201.68	Hodgkin's disease, mixed cellularity, of lymph nodes of multiple sites	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
201.7	Hodgkin's disease, lymphocytic depletion	Diagnosis	ICD-9-CM
201.70	Hodgkin's disease, lymphocytic depletion, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.71	Hodgkin's disease, lymphocytic depletion, of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.72	Hodgkin's disease, lymphocytic depletion, of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.73	Hodgkin's disease, lymphocytic depletion, of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.74	Hodgkin's disease, lymphocytic depletion, of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.75	Hodgkin's disease, lymphocytic depletion, of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.76	Hodgkin's disease, lymphocytic depletion, of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.77	Hodgkin's disease, lymphocytic depletion, of spleen	Diagnosis	ICD-9-CM
201.78	Hodgkin's disease, lymphocytic depletion, of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
201.9	Hodgkin's disease, unspecified type	Diagnosis	ICD-9-CM
201.90	Hodgkin's disease, unspecified type, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
201.91	Hodgkin's disease, unspecified type, of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
201.92	Hodgkin's disease, unspecified type, of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
201.93	Hodgkin's disease, unspecified type, of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
201.94	Hodgkin's disease, unspecified type, of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
201.95	Hodgkin's disease, unspecified type, of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
201.96	Hodgkin's disease, unspecified type, of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
201.97	Hodgkin's disease, unspecified type, of spleen	Diagnosis	ICD-9-CM
201.98	Hodgkin's disease, unspecified type, of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202	Other malignant neoplasms of lymphoid and histiocytic tissue	Diagnosis	ICD-9-CM
202.0	Nodular lymphoma	Diagnosis	ICD-9-CM
202.00	Nodular lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.01	Nodular lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.02	Nodular lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.03	Nodular lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.04	Nodular lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.05	Nodular lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.06	Nodular lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.07	Nodular lymphoma of spleen	Diagnosis	ICD-9-CM
202.08	Nodular lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.1	Mycosis fungoides	Diagnosis	ICD-9-CM
202.10	Mycosis fungoides, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.11	Mycosis fungoides of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.12	Mycosis fungoides of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.13	Mycosis fungoides of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
202.14	Mycosis fungoides of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.15	Mycosis fungoides of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.16	Mycosis fungoides of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.17	Mycosis fungoides of spleen	Diagnosis	ICD-9-CM
202.18	Mycosis fungoides of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.2	Sezary's disease	Diagnosis	ICD-9-CM
202.20	Sezary's disease, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.21	Sezary's disease of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.22	Sezary's disease of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.23	Sezary's disease of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.24	Sezary's disease of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.25	Sezary's disease of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.26	Sezary's disease of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.27	Sezary's disease of spleen	Diagnosis	ICD-9-CM
202.28	Sezary's disease of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.3	Malignant histiocytosis	Diagnosis	ICD-9-CM
202.30	Malignant histiocytosis, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.31	Malignant histiocytosis of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.32	Malignant histiocytosis of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.33	Malignant histiocytosis of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.34	Malignant histiocytosis of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.35	Malignant histiocytosis of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.36	Malignant histiocytosis of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.37	Malignant histiocytosis of spleen	Diagnosis	ICD-9-CM
202.38	Malignant histiocytosis of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.4	Leukemic reticuloendotheliosis	Diagnosis	ICD-9-CM
202.40	Leukemic reticuloendotheliosis, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.41	Leukemic reticuloendotheliosis of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.42	Leukemic reticuloendotheliosis of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.43	Leukemic reticuloendotheliosis of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.44	Leukemic reticuloendotheliosis of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.45	Leukemic reticuloendotheliosis of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.46	Leukemic reticuloendotheliosis of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.47	Leukemic reticuloendotheliosis of spleen	Diagnosis	ICD-9-CM
202.48	Leukemic reticuloendotheliosis of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.5	Letterer-Siwe disease	Diagnosis	ICD-9-CM
202.50	Letterer-Siwe disease, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.51	Letterer-Siwe disease of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.52	Letterer-Siwe disease of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.53	Letterer-Siwe disease of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
202.54	Letterer-Siwe disease of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.55	Letterer-Siwe disease of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.56	Letterer-Siwe disease of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.57	Letterer-Siwe disease of spleen	Diagnosis	ICD-9-CM
202.58	Letterer-Siwe disease of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.6	Malignant mast cell tumors	Diagnosis	ICD-9-CM
202.60	Malignant mast cell tumors, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.61	Malignant mast cell tumors of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.62	Malignant mast cell tumors of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.63	Malignant mast cell tumors of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.64	Malignant mast cell tumors of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.65	Malignant mast cell tumors of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.66	Malignant mast cell tumors of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.67	Malignant mast cell tumors of spleen	Diagnosis	ICD-9-CM
202.68	Malignant mast cell tumors of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.7	Peripheral T-cell lymphoma	Diagnosis	ICD-9-CM
202.70	Peripheral T-cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.71	Peripheral T-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.72	Peripheral T-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.73	Peripheral T-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.74	Peripheral T-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.75	Peripheral T-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.76	Peripheral T-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.77	Peripheral T-cell lymphoma, spleen	Diagnosis	ICD-9-CM
202.78	Peripheral T-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.8	Other malignant lymphomas	Diagnosis	ICD-9-CM
202.80	Other malignant lymphomas, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.81	Other malignant lymphomas of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.82	Other malignant lymphomas of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.83	Other malignant lymphomas of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.84	Other malignant lymphomas of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.85	Other malignant lymphomas of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.86	Other malignant lymphomas of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.87	Other malignant lymphomas of spleen	Diagnosis	ICD-9-CM
202.88	Other malignant lymphomas of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.9	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue	Diagnosis	ICD-9-CM
202.90	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.91	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.92	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrathoracic lymph nodes	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
202.93	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.94	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.95	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.96	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.97	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of spleen	Diagnosis	ICD-9-CM
202.98	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
203	Multiple myeloma without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
203.0	Multiple myeloma	Diagnosis	ICD-9-CM
203.00	Multiple myeloma, without mention of having achieved remission	Diagnosis	ICD-9-CM
203.01	Multiple myeloma in remission	Diagnosis	ICD-9-CM
203.02	Multiple myeloma in relapse	Diagnosis	ICD-9-CM
203.1	Plasma cell leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
203.10	Plasma cell leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
203.11	Plasma cell leukemia in remission	Diagnosis	ICD-9-CM
203.12	Plasma cell leukemia in relapse	Diagnosis	ICD-9-CM
203.12	Plasma cell leukemia, in relapse	Diagnosis	ICD-9-CM
203.8	Other immunoproliferative neoplasms without mention of having achieved remission	Diagnosis	ICD-9-CM
203.80	Other immunoproliferative neoplasms, without mention of having achieved remission	Diagnosis	ICD-9-CM
203.81	Other immunoproliferative neoplasms in remission	Diagnosis	ICD-9-CM
203.82	Other immunoproliferative neoplasms in relapse	Diagnosis	ICD-9-CM
204	Acute lymphoid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
204	Lymphoid leukemia	Diagnosis	ICD-9-CM
204.0	Acute lymphoid leukemia	Diagnosis	ICD-9-CM
204.00	Acute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.01	Acute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.02	Acute lymphoid leukemia in relapse	Diagnosis	ICD-9-CM
204.1	Acute lymphoid leukemia	Diagnosis	ICD-9-CM
204.10	Chronic lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.11	Acute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.11	Chronic lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.12	Acute lymphoid leukemia in relapse	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
204.2	Subacute lymphoid leukemia	Diagnosis	ICD-9-CM
204.20	Subacute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.21	Subacute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.22	Subacute lymphoid leukemia, in relapse	Diagnosis	ICD-9-CM
204.8	Other lymphoid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
204.80	Other lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.81	Other lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.82	Other lymphoid leukemia in relapse	Diagnosis	ICD-9-CM
204.9	Unspecified lymphoid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
204.90	Unspecified lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.91	Unspecified lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.92	Unspecified lymphoid leukemia in relapse	Diagnosis	ICD-9-CM
205	Acute myeloid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
205	Myeloid leukemia	Diagnosis	ICD-9-CM
205.0	Acute myeloid leukemia	Diagnosis	ICD-9-CM
205.00	Acute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.01	Acute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.02	Acute myeloid leukemia in relapse	Diagnosis	ICD-9-CM
205.1	Chronic myeloid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
205.10	Chronic myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.11	Chronic myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.12	Chronic myeloid leukemia in relapse	Diagnosis	ICD-9-CM
205.2	Subacute myeloid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
205.20	Subacute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.21	Subacute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.22	Subacute myeloid leukemia in relapse	Diagnosis	ICD-9-CM
205.3	Myeloid sarcoma without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
205.30	Myeloid sarcoma, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.31	Myeloid sarcoma in remission	Diagnosis	ICD-9-CM
205.32	Myeloid sarcoma in relapse	Diagnosis	ICD-9-CM
205.8	Chronic myeloid leukemia in remission without mention of having achieved remission	Diagnosis	ICD-9-CM
205.80	Other myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.81	Chronic myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.82	Chronic myeloid leukemia in relapse	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
205.9	Unspecified myeloid leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
205.90	Unspecified myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.91	Unspecified myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.92	Unspecified myel	Diagnosis	ICD-9-CM
206	Acute monocytic leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
206.0	Acute monocytic leukemia	Diagnosis	ICD-9-CM
206.00	Acute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.01	Acute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.02	Acute monocytic leukemia in relapse	Diagnosis	ICD-9-CM
206.1	Chronic monocytic leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
206.10	Chronic monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.11	Chronic monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.12	Chronic monocytic leukemia in relapse	Diagnosis	ICD-9-CM
206.2	Subacute monocytic leukemia without mention of having achieved remission	Diagnosis	ICD-9-CM
206.20	Subacute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.21	Subacute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.22	Subacute monocytic leukemia in relapse	Diagnosis	ICD-9-CM
206.8	Other monocytic leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
206.80	Other monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.81	Other monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.82	Other monocytic leukemia in relapse	Diagnosis	ICD-9-CM
206.9	Unspecified monocytic leukemia	Diagnosis	ICD-9-CM
206.90	Unspecified monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.91	Unspecified monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.92	Unspecified monocytic leukemia, in relapse	Diagnosis	ICD-9-CM
207	Acute erythremia and erythroleukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
207	Other specified leukemia	Diagnosis	ICD-9-CM
207.0	Acute erythremia and erythroleukemia	Diagnosis	ICD-9-CM
207.00	Acute erythremia and erythroleukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.01	Acute erythremia and erythroleukemia, in remission	Diagnosis	ICD-9-CM
207.01	Acute erythremia and erythroleukemia in remission	Diagnosis	ICD-9-CM
207.02	Acute erythremia and erythroleukemia, in relapse	Diagnosis	ICD-9-CM
207.1	Chronic erythremia	Diagnosis	ICD-9-CM
207.10	Chronic erythremia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.11	Chronic erythremia in remission	Diagnosis	ICD-9-CM
207.12	Chronic erythremia, in relapse	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
207.2	Megakaryocytic leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
207.20	Megakaryocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.21	Megakaryocytic leukemia in remission	Diagnosis	ICD-9-CM
207.22	Megakaryocytic leukemia in relapse	Diagnosis	ICD-9-CM
207.8	Other specified leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
207.80	Other specified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.81	Other specified leukemia in remission	Diagnosis	ICD-9-CM
207.82	Other specified leukemia in relapse	Diagnosis	ICD-9-CM
208	Acute leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
208.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.00	Acute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.01	Acute leukemia in remission	Diagnosis	ICD-9-CM
208.02	Acute leukemia in relapse	Diagnosis	ICD-9-CM
208.1	Chronic leukemia without mention of having achieved remission, failed remission	Diagnosis	ICD-9-CM
208.10	Chronic leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.11	Chronic leukemia in remission	Diagnosis	ICD-9-CM
208.12	Chronic leukemia in relapse	Diagnosis	ICD-9-CM
208.2	Subacute leukemia without mention of having achieved remission	Diagnosis	ICD-9-CM
208.20	Subacute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.21	Subacute leukemia in remission	Diagnosis	ICD-9-CM
208.22	Subacute leukemia in relapse	Diagnosis	ICD-9-CM
208.8	Other leukemia of unspecified cell type without mention of having achieved remission	Diagnosis	ICD-9-CM
208.80	Other leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.81	Other leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.82	Other leukemia of unspecified cell type in relapse	Diagnosis	ICD-9-CM
208.9	Unspecified leukemia	Diagnosis	ICD-9-CM
208.90	Unspecified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.91	Unspecified leukemia in remission	Diagnosis	ICD-9-CM
208.92	Unspecified leukemia, in relapse	Diagnosis	ICD-9-CM
238.79	Other lymphatic and hematopoietic tissues	Diagnosis	ICD-9-CM
273.3	Waldenstrom's macroglobulinemia	Diagnosis	ICD-9-CM
277.89	Other specified disorders of metabolism	Diagnosis	ICD-9-CM
C81	Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.0	Nodular lymphocyte predominant Hodgkin lymphoma	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.01	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.03	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.04	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.05	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.06	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.07	Nodular lymphocyte predominant Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.08	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.09	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.1	Nodular sclerosis Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.10	Nodular sclerosis Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.11	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.12	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.13	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.14	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.15	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.16	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.17	Nodular sclerosis Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.18	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.19	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.2	Mixed cellularity Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.20	Mixed cellularity Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.21	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.22	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.23	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.24	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.25	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.26	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.27	Mixed cellularity Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.28	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.29	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.3	Lymphocyte depleted Hodgkin lymphoma	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C81.30	Lymphocyte depleted Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.31	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.32	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.33	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.34	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.35	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.36	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.37	Lymphocyte depleted Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.38	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.39	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.4	Lymphocyte-rich Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.40	Lymphocyte-rich Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.41	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.42	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.43	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.44	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.45	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.46	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.47	Lymphocyte-rich Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.48	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.49	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.7	Other Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.70	Other Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.71	Other Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.72	Other Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.73	Other Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.74	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.75	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.76	Other Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.77	Other Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.78	Other Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.79	Other Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.9	Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C81.90	Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C81.91	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.93	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.94	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.95	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.96	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C81.97	Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C81.98	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.99	Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82	Follicular lymphoma	Diagnosis	ICD-10-CM
C82.0	Follicular lymphoma grade I	Diagnosis	ICD-10-CM
C82.00	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C82.01	Follicular lymphoma grade I, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.03	Follicular lymphoma grade I, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.04	Follicular lymphoma grade I, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.05	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.06	Follicular lymphoma grade I, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.07	Follicular lymphoma grade I, spleen	Diagnosis	ICD-10-CM
C82.08	Follicular lymphoma grade I, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.09	Follicular lymphoma grade I, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.1	Follicular lymphoma grade II	Diagnosis	ICD-10-CM
C82.10	Follicular lymphoma grade II, unspecified site	Diagnosis	ICD-10-CM
C82.11	Follicular lymphoma grade II, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.13	Follicular lymphoma grade II, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.14	Follicular lymphoma grade II, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.15	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.16	Follicular lymphoma grade II, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.17	Follicular lymphoma grade II, spleen	Diagnosis	ICD-10-CM
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.2	Follicular lymphoma grade III, unspecified	Diagnosis	ICD-10-CM
C82.20	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.27	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.3	Follicular lymphoma grade IIIa	Diagnosis	ICD-10-CM
C82.30	Follicular lymphoma grade IIIa, unspecified site	Diagnosis	ICD-10-CM
C82.31	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C82.33	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.34	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.35	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.36	Follicular lymphoma grade IIIa, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.37	Follicular lymphoma grade IIIa, spleen	Diagnosis	ICD-10-CM
C82.38	Follicular lymphoma grade IIIa, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.39	Follicular lymphoma grade IIIa, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.4	Follicular lymphoma grade IIIb	Diagnosis	ICD-10-CM
C82.40	Follicular lymphoma grade IIIb, unspecified site	Diagnosis	ICD-10-CM
C82.41	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.43	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.44	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.45	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.46	Follicular lymphoma grade IIIb, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.47	Follicular lymphoma grade IIIb, spleen	Diagnosis	ICD-10-CM
C82.48	Follicular lymphoma grade IIIb, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.49	Follicular lymphoma grade IIIb, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.5	Diffuse follicle center lymphoma	Diagnosis	ICD-10-CM
C82.50	Diffuse follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.51	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.53	Diffuse follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.54	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.55	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.56	Diffuse follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.57	Diffuse follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.58	Diffuse follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.59	Diffuse follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.6	Cutaneous follicle center lymphoma	Diagnosis	ICD-10-CM
C82.60	Cutaneous follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.61	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.63	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.64	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.67	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.8	Other types of follicular lymphoma	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C82.80	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.87	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.9	Follicular lymphoma, unspecified	Diagnosis	ICD-10-CM
C82.90	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.93	Follicular lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.94	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.95	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.96	Follicular lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.97	Follicular lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C82.98	Follicular lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.99	Follicular lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83	Non-follicular lymphoma	Diagnosis	ICD-10-CM
C83.0	Small cell B-cell lymphoma	Diagnosis	ICD-10-CM
C83.00	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.01	Small cell B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.03	Small cell B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.04	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.05	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.07	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.1	Mantle cell lymphoma	Diagnosis	ICD-10-CM
C83.10	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.11	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.17	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.19	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.3	Diffuse large B-cell lymphoma	Diagnosis	ICD-10-CM
C83.30	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.37	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.5	Lymphoblastic (diffuse) lymphoma	Diagnosis	ICD-10-CM
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.57	Lymphoblastic (diffuse) lymphoma, spleen	Diagnosis	ICD-10-CM
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.7	Burkitt lymphoma	Diagnosis	ICD-10-CM
C83.70	Burkitt lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.71	Burkitt lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.72	Burkitt lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.73	Burkitt lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.74	Burkitt lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.75	Burkitt lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.76	Burkitt lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.77	Burkitt lymphoma, spleen	Diagnosis	ICD-10-CM
C83.78	Burkitt lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.79	Burkitt lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.8	Other non-follicular lymphoma	Diagnosis	ICD-10-CM
C83.80	Other non-follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.81	Other non-follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.84	Other non-follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.85	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.86	Other non-follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.87	Other non-follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C83.88	Other non-follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.89	Other non-follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.9	Non-follicular (diffuse) lymphoma, unspecified	Diagnosis	ICD-10-CM
C83.90	Non-follicular (diffuse) lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C83.91	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.93	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.94	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.95	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.96	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.97	Non-follicular (diffuse) lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C83.98	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.99	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84	Mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C84.0	Mycosis fungoides	Diagnosis	ICD-10-CM
C84.00	Mycosis fungoides, unspecified site	Diagnosis	ICD-10-CM
C84.01	Mycosis fungoides, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.02	Mycosis fungoides, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.03	Mycosis fungoides, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.04	Mycosis fungoides, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.05	Mycosis fungoides, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.06	Mycosis fungoides, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.07	Mycosis fungoides, spleen	Diagnosis	ICD-10-CM
C84.08	Mycosis fungoides, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.09	Mycosis fungoides, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.1	Sezary disease	Diagnosis	ICD-10-CM
C84.10	Sezary disease, unspecified site	Diagnosis	ICD-10-CM
C84.11	Sezary disease, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.12	Sezary disease, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.13	Sezary disease, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.14	Sezary disease, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.15	Sezary disease, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.16	Sezary disease, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.17	Sezary disease, spleen	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C84.18	Sezary disease, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.19	Sezary disease, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.4	Peripheral T-cell lymphoma, not classified	Diagnosis	ICD-10-CM
C84.40	Peripheral T-cell lymphoma, not classified, unspecified site	Diagnosis	ICD-10-CM
C84.41	Peripheral T-cell lymphoma, not classified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.42	Peripheral T-cell lymphoma, not classified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.43	Peripheral T-cell lymphoma, not classified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.44	Peripheral T-cell lymphoma, not classified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.45	Peripheral T-cell lymphoma, not classified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.46	Peripheral T-cell lymphoma, not classified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.47	Peripheral T-cell lymphoma, not classified, spleen	Diagnosis	ICD-10-CM
C84.48	Peripheral T-cell lymphoma, not classified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.49	Peripheral T-cell lymphoma, not classified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.6	Anaplastic large cell lymphoma, ALK-positive	Diagnosis	ICD-10-CM
C84.60	Anaplastic large cell lymphoma, ALK-positive, unspecified site	Diagnosis	ICD-10-CM
C84.61	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.63	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.64	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.65	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.66	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.67	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C84.68	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.69	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.7	Anaplastic large cell lymphoma, ALK-negative	Diagnosis	ICD-10-CM
C84.70	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C84.71	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.73	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.74	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.75	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.76	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.77	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C84.78	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C84.9	Mature T/NK-cell lymphomas, unspecified	Diagnosis	ICD-10-CM
C84.90	Mature T/NK-cell lymphomas, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.91	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.93	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.94	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.95	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.96	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.97	Mature T/NK-cell lymphomas, unspecified, spleen	Diagnosis	ICD-10-CM
C84.98	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.99	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.A	Cutaneous T-cell lymphoma, unspecified	Diagnosis	ICD-10-CM
C84.A0	Cutaneous T-cell lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.A7	Cutaneous T-cell lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C84.A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.Z	Other mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C84.Z0	Other mature T/NK-cell lymphomas, unspecified site	Diagnosis	ICD-10-CM
C84.Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.Z7	Other mature T/NK-cell lymphomas, spleen	Diagnosis	ICD-10-CM
C84.Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85	Other specified and unspecified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C85.1	Unspecified B-cell lymphoma	Diagnosis	ICD-10-CM
C85.10	Unspecified B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.11	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.13	Unspecified B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C85.14	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.15	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.16	Unspecified B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.17	Unspecified B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.18	Unspecified B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.19	Unspecified B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.2	Mediastinal (thymic) large B-cell lymphoma	Diagnosis	ICD-10-CM
C85.20	Mediastinal (thymic) large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.23	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.24	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.8	Other specified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.87	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.9	Non-Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.97	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C86	Other specified types of T/NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.0	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C86.1	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.2	Enteropathy-type (intestinal) T-cell lymphoma	Diagnosis	ICD-10-CM
C86.3	Subcutaneous panniculitis-like T-cell lymphoma	Diagnosis	ICD-10-CM
C86.4	Blastic NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.5	Angioimmunoblastic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.6	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas	Diagnosis	ICD-10-CM
C88.0	Waldenstrom macroglobulinemia	Diagnosis	ICD-10-CM
C88.2	Heavy chain disease	Diagnosis	ICD-10-CM
C88.3	Immunoproliferative small intestinal disease	Diagnosis	ICD-10-CM
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM
C88.8	Other malignant immunoproliferative diseases	Diagnosis	ICD-10-CM
C88.9	Malignant immunoproliferative disease, unspecified	Diagnosis	ICD-10-CM
C90	Multiple myeloma and malignant plasma cell neoplasms	Diagnosis	ICD-10-CM
C90.0	Multiple myeloma	Diagnosis	ICD-10-CM
C90.00	Multiple myeloma not having achieved remission	Diagnosis	ICD-10-CM
C90.01	Multiple myeloma in remission	Diagnosis	ICD-10-CM
C90.02	Multiple myeloma in relapse	Diagnosis	ICD-10-CM
C90.1	Plasma cell leukemia	Diagnosis	ICD-10-CM
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.11	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM
C90.12	Plasma cell leukemia in relapse	Diagnosis	ICD-10-CM
C90.2	Extramedullary plasmacytoma	Diagnosis	ICD-10-CM
C90.20	Extramedullary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.21	Extramedullary plasmacytoma in remission	Diagnosis	ICD-10-CM
C90.22	Extramedullary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C90.3	Solitary plasmacytoma	Diagnosis	ICD-10-CM
C90.30	Solitary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.31	Solitary plasmacytoma in remission	Diagnosis	ICD-10-CM
C90.32	Solitary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C91	Lymphoid leukemia	Diagnosis	ICD-10-CM
C91.0	Acute lymphoblastic leukemia [ALL]	Diagnosis	ICD-10-CM
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C91.01	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C91.02	Acute lymphoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C91.1	Chronic lymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C91.10	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.11	Chronic lymphocytic leukemia of B-cell type in remission	Diagnosis	ICD-10-CM
C91.12	Chronic lymphocytic leukemia of B-cell type in relapse	Diagnosis	ICD-10-CM
C91.3	Prolymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C91.30	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.31	Prolymphocytic leukemia of B-cell type, in remission	Diagnosis	ICD-10-CM
C91.32	Prolymphocytic leukemia of B-cell type, in relapse	Diagnosis	ICD-10-CM
C91.4	Hairy cell leukemia	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.41	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C91.42	Hairy cell leukemia, in relapse	Diagnosis	ICD-10-CM
C91.5	Adult T-cell lymphoma/leukemia (HTLV-1-associated)	Diagnosis	ICD-10-CM
C91.50	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM
C91.51	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C91.52	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C91.6	Prolymphocytic leukemia of T-cell type	Diagnosis	ICD-10-CM
C91.60	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.61	Prolymphocytic leukemia of T-cell type, in remission	Diagnosis	ICD-10-CM
C91.62	Prolymphocytic leukemia of T-cell type, in relapse	Diagnosis	ICD-10-CM
C91.9	Lymphoid leukemia, unspecified	Diagnosis	ICD-10-CM
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.91	Lymphoid leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C91.92	Lymphoid leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C91.A	Mature B-cell leukemia Burkitt-type	Diagnosis	ICD-10-CM
C91.A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91.A1	Mature B-cell leukemia Burkitt-type, in remission	Diagnosis	ICD-10-CM
C91.A2	Mature B-cell leukemia Burkitt-type, in relapse	Diagnosis	ICD-10-CM
C91.Z	Other lymphoid leukemia	Diagnosis	ICD-10-CM
C91.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z1	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C91.Z2	Other lymphoid leukemia, in relapse	Diagnosis	ICD-10-CM
C92	Myeloid leukemia	Diagnosis	ICD-10-CM
C92.0	Acute myeloblastic leukemia	Diagnosis	ICD-10-CM
C92.00	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.01	Acute myeloblastic leukemia, in remission	Diagnosis	ICD-10-CM
C92.02	Acute myeloblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.1	Chronic myeloid leukemia, BCR/ABL-positive	Diagnosis	ICD-10-CM
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C92.11	Chronic myeloid leukemia, BCR/ABL-positive, in remission	Diagnosis	ICD-10-CM
C92.12	Chronic myeloid leukemia, BCR/ABL-positive, in relapse	Diagnosis	ICD-10-CM
C92.2	Atypical chronic myeloid leukemia, BCR/ABL-negative	Diagnosis	ICD-10-CM
C92.20	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C92.21	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission	Diagnosis	ICD-10-CM
C92.22	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse	Diagnosis	ICD-10-CM
C92.3	Myeloid sarcoma	Diagnosis	ICD-10-CM
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C92.31	Myeloid sarcoma, in remission	Diagnosis	ICD-10-CM
C92.32	Myeloid sarcoma, in relapse	Diagnosis	ICD-10-CM
C92.4	Acute promyelocytic leukemia	Diagnosis	ICD-10-CM
C92.40	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.41	Acute promyelocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.42	Acute promyelocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.5	Acute myelomonocytic leukemia	Diagnosis	ICD-10-CM
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.51	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.52	Acute myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.6	Acute myeloid leukemia with 11q23-abnormality	Diagnosis	ICD-10-CM
C92.60	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM
C92.61	Acute myeloid leukemia with 11q23-abnormality in remission	Diagnosis	ICD-10-CM
C92.62	Acute myeloid leukemia with 11q23-abnormality in relapse	Diagnosis	ICD-10-CM
C92.9	Myeloid leukemia, unspecified	Diagnosis	ICD-10-CM
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.91	Myeloid leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C92.92	Myeloid leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C92.A	Acute myeloid leukemia with multilineage dysplasia	Diagnosis	ICD-10-CM
C92.A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92.A1	Acute myeloid leukemia with multilineage dysplasia, in remission	Diagnosis	ICD-10-CM
C92.A2	Acute myeloid leukemia with multilineage dysplasia, in relapse	Diagnosis	ICD-10-CM
C92.Z	Other myeloid leukemia	Diagnosis	ICD-10-CM
C92.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92.Z1	Other myeloid leukemia, in remission	Diagnosis	ICD-10-CM
C92.Z2	Other myeloid leukemia, in relapse	Diagnosis	ICD-10-CM
C93	Monocytic leukemia	Diagnosis	ICD-10-CM
C93.0	Acute monoblastic/monocytic leukemia	Diagnosis	ICD-10-CM
C93.00	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.01	Acute monoblastic/monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.02	Acute monoblastic/monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.1	Chronic myelomonocytic leukemia	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.11	Chronic myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.12	Chronic myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.3	Juvenile myelomonocytic leukemia	Diagnosis	ICD-10-CM
C93.30	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.31	Juvenile myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.32	Juvenile myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.9	Monocytic leukemia, unspecified	Diagnosis	ICD-10-CM
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.91	Monocytic leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C93.92	Monocytic leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C93.Z	Other monocytic leukemia	Diagnosis	ICD-10-CM
C93.Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.Z1	Other monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.Z2	Other monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C94	Other leukemias of specified cell type	Diagnosis	ICD-10-CM
C94.0	Acute erythroid leukemia	Diagnosis	ICD-10-CM
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.01	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C94.02	Acute erythroid leukemia, in relapse	Diagnosis	ICD-10-CM
C94.2	Acute megakaryoblastic leukemia	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.21	Acute megakaryoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C94.22	Acute megakaryoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C94.3	Mast cell leukemia	Diagnosis	ICD-10-CM
C94.30	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.31	Mast cell leukemia, in remission	Diagnosis	ICD-10-CM
C94.32	Mast cell leukemia, in relapse	Diagnosis	ICD-10-CM
C94.4	Acute panmyelosis with myelofibrosis	Diagnosis	ICD-10-CM
C94.40	Acute panmyelosis with myelofibrosis not having achieved remission	Diagnosis	ICD-10-CM
C94.41	Acute panmyelosis with myelofibrosis, in remission	Diagnosis	ICD-10-CM
C94.42	Acute panmyelosis with myelofibrosis, in relapse	Diagnosis	ICD-10-CM
C94.6	Myelodysplastic disease, not classified	Diagnosis	ICD-10-CM
C94.8	Other specified leukemias	Diagnosis	ICD-10-CM
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.81	Other specified leukemias, in remission	Diagnosis	ICD-10-CM
C94.82	Other specified leukemias, in relapse	Diagnosis	ICD-10-CM
C95	Leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.00	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.01	Acute leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.02	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C95.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.10	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.11	Chronic leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.12	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C95.9	Leukemia, unspecified	Diagnosis	ICD-10-CM
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C95.92	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
C96.0	Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.2	Malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C96.20	Malignant mast cell neoplasm, unspecified	Diagnosis	ICD-10-CM
C96.21	Aggressive systemic mastocytosis	Diagnosis	ICD-10-CM
C96.22	Mast cell sarcoma	Diagnosis	ICD-10-CM
C96.29	Other malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C96.4	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C96.5	Multifocal and unisystemic Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.6	Unifocal Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.A	Histiocytic sarcoma	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
Other Cancer			
140	Malignant neoplasm of lip	Diagnosis	ICD-9-CM
140.0	Malignant neoplasm of upper lip, vermilion border	Diagnosis	ICD-9-CM
140.1	Malignant neoplasm of lower lip, vermilion border	Diagnosis	ICD-9-CM
140.3	Malignant neoplasm of upper lip, inner aspect	Diagnosis	ICD-9-CM
140.4	Malignant neoplasm of lower lip, inner aspect	Diagnosis	ICD-9-CM
140.5	Malignant neoplasm of lip, inner aspect, unspecified as to upper or lower	Diagnosis	ICD-9-CM
140.6	Malignant neoplasm of commissure of lip	Diagnosis	ICD-9-CM
140.8	Malignant neoplasm of other sites of lip	Diagnosis	ICD-9-CM
140.9	Malignant neoplasm of lip, vermilion border, unspecified as to upper or lower	Diagnosis	ICD-9-CM
141	Malignant neoplasm of tongue	Diagnosis	ICD-9-CM
141.0	Malignant neoplasm of base of tongue	Diagnosis	ICD-9-CM
141.1	Malignant neoplasm of dorsal surface of tongue	Diagnosis	ICD-9-CM
141.2	Malignant neoplasm of tip and lateral border of tongue	Diagnosis	ICD-9-CM
141.3	Malignant neoplasm of ventral surface of tongue	Diagnosis	ICD-9-CM
141.4	Malignant neoplasm of anterior two-thirds of tongue, part unspecified	Diagnosis	ICD-9-CM
141.5	Malignant neoplasm of junctional zone of tongue	Diagnosis	ICD-9-CM
141.6	Malignant neoplasm of lingual tonsil	Diagnosis	ICD-9-CM
141.8	Malignant neoplasm of other sites of tongue	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
141.9	Malignant neoplasm of tongue, unspecified site	Diagnosis	ICD-9-CM
142	Malignant neoplasm of major salivary glands	Diagnosis	ICD-9-CM
142.0	Malignant neoplasm of parotid gland	Diagnosis	ICD-9-CM
142.1	Malignant neoplasm of submandibular gland	Diagnosis	ICD-9-CM
142.2	Malignant neoplasm of sublingual gland	Diagnosis	ICD-9-CM
142.8	Malignant neoplasm of other major salivary glands	Diagnosis	ICD-9-CM
142.9	Malignant neoplasm of salivary gland, unspecified	Diagnosis	ICD-9-CM
143	Malignant neoplasm of gum	Diagnosis	ICD-9-CM
143.0	Malignant neoplasm of upper gum	Diagnosis	ICD-9-CM
143.1	Malignant neoplasm of lower gum	Diagnosis	ICD-9-CM
143.8	Malignant neoplasm of other sites of gum	Diagnosis	ICD-9-CM
143.9	Malignant neoplasm of gum, unspecified site	Diagnosis	ICD-9-CM
144	Malignant neoplasm of floor of mouth	Diagnosis	ICD-9-CM
144.0	Malignant neoplasm of anterior portion of floor of mouth	Diagnosis	ICD-9-CM
144.1	Malignant neoplasm of lateral portion of floor of mouth	Diagnosis	ICD-9-CM
144.8	Malignant neoplasm of other sites of floor of mouth	Diagnosis	ICD-9-CM
144.9	Malignant neoplasm of floor of mouth, part unspecified	Diagnosis	ICD-9-CM
145	Malignant neoplasm of other and unspecified parts of mouth	Diagnosis	ICD-9-CM
145.0	Malignant neoplasm of cheek mucosa	Diagnosis	ICD-9-CM
145.1	Malignant neoplasm of vestibule of mouth	Diagnosis	ICD-9-CM
145.2	Malignant neoplasm of hard palate	Diagnosis	ICD-9-CM
145.3	Malignant neoplasm of soft palate	Diagnosis	ICD-9-CM
145.4	Malignant neoplasm of uvula	Diagnosis	ICD-9-CM
145.5	Malignant neoplasm of palate, unspecified	Diagnosis	ICD-9-CM
145.6	Malignant neoplasm of retromolar area	Diagnosis	ICD-9-CM
145.8	Malignant neoplasm of other specified parts of mouth	Diagnosis	ICD-9-CM
145.9	Malignant neoplasm of mouth, unspecified site	Diagnosis	ICD-9-CM
146	Malignant neoplasm of oropharynx	Diagnosis	ICD-9-CM
146.0	Malignant neoplasm of tonsil	Diagnosis	ICD-9-CM
146.1	Malignant neoplasm of tonsillar fossa	Diagnosis	ICD-9-CM
146.2	Malignant neoplasm of tonsillar pillars (anterior) (posterior)	Diagnosis	ICD-9-CM
146.3	Malignant neoplasm of vallecula	Diagnosis	ICD-9-CM
146.4	Malignant neoplasm of anterior aspect of epiglottis	Diagnosis	ICD-9-CM
146.5	Malignant neoplasm of junctional region of oropharynx	Diagnosis	ICD-9-CM
146.6	Malignant neoplasm of lateral wall of oropharynx	Diagnosis	ICD-9-CM
146.7	Malignant neoplasm of posterior wall of oropharynx	Diagnosis	ICD-9-CM
146.8	Malignant neoplasm of other specified sites of oropharynx	Diagnosis	ICD-9-CM
146.9	Malignant neoplasm of oropharynx, unspecified site	Diagnosis	ICD-9-CM
147	Malignant neoplasm of nasopharynx	Diagnosis	ICD-9-CM
147.0	Malignant neoplasm of superior wall of nasopharynx	Diagnosis	ICD-9-CM
147.1	Malignant neoplasm of posterior wall of nasopharynx	Diagnosis	ICD-9-CM
147.2	Malignant neoplasm of lateral wall of nasopharynx	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
147.3	Malignant neoplasm of anterior wall of nasopharynx	Diagnosis	ICD-9-CM
147.8	Malignant neoplasm of other specified sites of nasopharynx	Diagnosis	ICD-9-CM
147.9	Malignant neoplasm of nasopharynx, unspecified site	Diagnosis	ICD-9-CM
148	Malignant neoplasm of hypopharynx	Diagnosis	ICD-9-CM
148.0	Malignant neoplasm of postcricoid region of hypopharynx	Diagnosis	ICD-9-CM
148.1	Malignant neoplasm of pyriform sinus	Diagnosis	ICD-9-CM
148.2	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	Diagnosis	ICD-9-CM
148.3	Malignant neoplasm of posterior hypopharyngeal wall	Diagnosis	ICD-9-CM
148.8	Malignant neoplasm of other specified sites of hypopharynx	Diagnosis	ICD-9-CM
148.9	Malignant neoplasm of hypopharynx, unspecified site	Diagnosis	ICD-9-CM
149	Malignant neoplasm of other and ill-defined sites within the lip, oral cavity, and pharynx	Diagnosis	ICD-9-CM
149.0	Malignant neoplasm of pharynx, unspecified	Diagnosis	ICD-9-CM
149.1	Malignant neoplasm of Waldeyer's ring	Diagnosis	ICD-9-CM
149.8	Malignant neoplasm of other sites within the lip and oral cavity	Diagnosis	ICD-9-CM
149.9	Malignant neoplasm of ill-defined sites of lip and oral cavity	Diagnosis	ICD-9-CM
150	Malignant neoplasm of esophagus	Diagnosis	ICD-9-CM
150.0	Malignant neoplasm of cervical esophagus	Diagnosis	ICD-9-CM
150.1	Malignant neoplasm of thoracic esophagus	Diagnosis	ICD-9-CM
150.2	Malignant neoplasm of abdominal esophagus	Diagnosis	ICD-9-CM
150.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-9-CM
150.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-9-CM
150.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-9-CM
150.8	Malignant neoplasm of other specified part of esophagus	Diagnosis	ICD-9-CM
150.9	Malignant neoplasm of esophagus, unspecified site	Diagnosis	ICD-9-CM
151	Malignant neoplasm of stomach	Diagnosis	ICD-9-CM
151.0	Malignant neoplasm of cardia	Diagnosis	ICD-9-CM
151.1	Malignant neoplasm of pylorus	Diagnosis	ICD-9-CM
151.2	Malignant neoplasm of pyloric antrum	Diagnosis	ICD-9-CM
151.3	Malignant neoplasm of fundus of stomach	Diagnosis	ICD-9-CM
151.4	Malignant neoplasm of body of stomach	Diagnosis	ICD-9-CM
151.5	Malignant neoplasm of lesser curvature of stomach, unspecified	Diagnosis	ICD-9-CM
151.6	Malignant neoplasm of greater curvature of stomach, unspecified	Diagnosis	ICD-9-CM
151.8	Malignant neoplasm of other specified sites of stomach	Diagnosis	ICD-9-CM
151.9	Malignant neoplasm of stomach, unspecified site	Diagnosis	ICD-9-CM
152	Malignant neoplasm of small intestine, including duodenum	Diagnosis	ICD-9-CM
152.0	Malignant neoplasm of duodenum	Diagnosis	ICD-9-CM
152.1	Malignant neoplasm of jejunum	Diagnosis	ICD-9-CM
152.2	Malignant neoplasm of ileum	Diagnosis	ICD-9-CM
152.3	Malignant neoplasm of Meckel's diverticulum	Diagnosis	ICD-9-CM
152.8	Malignant neoplasm of other specified sites of small intestine	Diagnosis	ICD-9-CM
152.9	Malignant neoplasm of small intestine, unspecified site	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
153	Malignant neoplasm of colon	Diagnosis	ICD-9-CM
153.0	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-9-CM
153.1	Malignant neoplasm of transverse colon	Diagnosis	ICD-9-CM
153.2	Malignant neoplasm of descending colon	Diagnosis	ICD-9-CM
153.3	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-9-CM
153.4	Malignant neoplasm of cecum	Diagnosis	ICD-9-CM
153.5	Malignant neoplasm of appendix	Diagnosis	ICD-9-CM
153.6	Malignant neoplasm of ascending colon	Diagnosis	ICD-9-CM
153.7	Malignant neoplasm of splenic flexure	Diagnosis	ICD-9-CM
153.8	Malignant neoplasm of other specified sites of large intestine	Diagnosis	ICD-9-CM
153.9	Malignant neoplasm of colon, unspecified site	Diagnosis	ICD-9-CM
154	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-9-CM
154.0	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-9-CM
154.1	Malignant neoplasm of rectum	Diagnosis	ICD-9-CM
154.2	Malignant neoplasm of anal canal	Diagnosis	ICD-9-CM
154.3	Malignant neoplasm of anus, unspecified site	Diagnosis	ICD-9-CM
154.8	Malignant neoplasm of other sites of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-9-CM
155	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-9-CM
155.0	Malignant neoplasm of liver, primary	Diagnosis	ICD-9-CM
155.1	Malignant neoplasm of intrahepatic bile ducts	Diagnosis	ICD-9-CM
155.2	Malignant neoplasm of liver, not specified as primary or secondary	Diagnosis	ICD-9-CM
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	Diagnosis	ICD-9-CM
156.0	Malignant neoplasm of gallbladder	Diagnosis	ICD-9-CM
156.1	Malignant neoplasm of extrahepatic bile ducts	Diagnosis	ICD-9-CM
156.2	Malignant neoplasm of ampulla of Vater	Diagnosis	ICD-9-CM
156.8	Malignant neoplasm of other specified sites of gallbladder and extrahepatic bile ducts	Diagnosis	ICD-9-CM
156.9	Malignant neoplasm of biliary tract, part unspecified site	Diagnosis	ICD-9-CM
157	Malignant neoplasm of pancreas	Diagnosis	ICD-9-CM
157.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-9-CM
157.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-9-CM
157.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-9-CM
157.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-9-CM
157.4	Malignant neoplasm of islets of Langerhans	Diagnosis	ICD-9-CM
157.8	Malignant neoplasm of other specified sites of pancreas	Diagnosis	ICD-9-CM
157.9	Malignant neoplasm of pancreas, part unspecified	Diagnosis	ICD-9-CM
158	Malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-9-CM
158.0	Malignant neoplasm of retroperitoneum	Diagnosis	ICD-9-CM
158.8	Malignant neoplasm of specified parts of peritoneum	Diagnosis	ICD-9-CM
158.9	Malignant neoplasm of peritoneum, unspecified	Diagnosis	ICD-9-CM
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
159.0	Malignant neoplasm of intestinal tract, part unspecified	Diagnosis	ICD-9-CM
159.1	Malignant neoplasm of spleen, not elsewhere classified	Diagnosis	ICD-9-CM
159.8	Malignant neoplasm of other sites of digestive system and intra-abdominal organs	Diagnosis	ICD-9-CM
159.9	Malignant neoplasm of ill-defined sites of digestive organs and peritoneum	Diagnosis	ICD-9-CM
160	Malignant neoplasm of nasal cavities, middle ear, and accessory sinuses	Diagnosis	ICD-9-CM
160.0	Malignant neoplasm of nasal cavities	Diagnosis	ICD-9-CM
160.1	Malignant neoplasm of auditory tube, middle ear, and mastoid air cells	Diagnosis	ICD-9-CM
160.2	Malignant neoplasm of maxillary sinus	Diagnosis	ICD-9-CM
160.3	Malignant neoplasm of ethmoidal sinus	Diagnosis	ICD-9-CM
160.4	Malignant neoplasm of frontal sinus	Diagnosis	ICD-9-CM
160.5	Malignant neoplasm of sphenoidal sinus	Diagnosis	ICD-9-CM
160.8	Malignant neoplasm of other sites of nasal cavities, middle ear, and accessory sinuses	Diagnosis	ICD-9-CM
160.9	Malignant neoplasm of site of nasal cavities, middle ear, and accessory sinus, unspecified site	Diagnosis	ICD-9-CM
161	Malignant neoplasm of larynx	Diagnosis	ICD-9-CM
161.0	Malignant neoplasm of glottis	Diagnosis	ICD-9-CM
161.1	Malignant neoplasm of supraglottis	Diagnosis	ICD-9-CM
161.2	Malignant neoplasm of subglottis	Diagnosis	ICD-9-CM
161.3	Malignant neoplasm of laryngeal cartilages	Diagnosis	ICD-9-CM
161.8	Malignant neoplasm of other specified sites of larynx	Diagnosis	ICD-9-CM
161.9	Malignant neoplasm of larynx, unspecified site	Diagnosis	ICD-9-CM
162	Malignant neoplasm of trachea, bronchus, and lung	Diagnosis	ICD-9-CM
162.0	Malignant neoplasm of trachea	Diagnosis	ICD-9-CM
162.2	Malignant neoplasm of main bronchus	Diagnosis	ICD-9-CM
162.3	Malignant neoplasm of upper lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.4	Malignant neoplasm of middle lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.5	Malignant neoplasm of lower lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.8	Malignant neoplasm of other parts of bronchus or lung	Diagnosis	ICD-9-CM
162.9	Malignant neoplasm of bronchus and lung, unspecified site	Diagnosis	ICD-9-CM
163	Malignant neoplasm of pleura	Diagnosis	ICD-9-CM
163.0	Malignant neoplasm of parietal pleura	Diagnosis	ICD-9-CM
163.1	Malignant neoplasm of visceral pleura	Diagnosis	ICD-9-CM
163.8	Malignant neoplasm of other specified sites of pleura	Diagnosis	ICD-9-CM
163.9	Malignant neoplasm of pleura, unspecified site	Diagnosis	ICD-9-CM
164	Malignant neoplasm of thymus, heart, and mediastinum	Diagnosis	ICD-9-CM
164.0	Malignant neoplasm of thymus	Diagnosis	ICD-9-CM
164.1	Malignant neoplasm of heart	Diagnosis	ICD-9-CM
164.2	Malignant neoplasm of anterior mediastinum	Diagnosis	ICD-9-CM
164.3	Malignant neoplasm of posterior mediastinum	Diagnosis	ICD-9-CM
164.8	Malignant neoplasm of other parts of mediastinum	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
164.9	Malignant neoplasm of mediastinum, part unspecified	Diagnosis	ICD-9-CM
165	Malignant neoplasm of other and ill-defined sites within the respiratory system and intrathoracic organs	Diagnosis	ICD-9-CM
165.0	Malignant neoplasm of upper respiratory tract, part unspecified	Diagnosis	ICD-9-CM
165.8	Malignant neoplasm of other sites within the respiratory system and intrathoracic organs	Diagnosis	ICD-9-CM
165.9	Malignant neoplasm of ill-defined sites within the respiratory system	Diagnosis	ICD-9-CM
170	Malignant neoplasm of bone and articular cartilage	Diagnosis	ICD-9-CM
170.0	Malignant neoplasm of bones of skull and face, except mandible	Diagnosis	ICD-9-CM
170.1	Malignant neoplasm of mandible	Diagnosis	ICD-9-CM
170.2	Malignant neoplasm of vertebral column, excluding sacrum and coccyx	Diagnosis	ICD-9-CM
170.3	Malignant neoplasm of ribs, sternum, and clavicle	Diagnosis	ICD-9-CM
170.4	Malignant neoplasm of scapula and long bones of upper limb	Diagnosis	ICD-9-CM
170.5	Malignant neoplasm of short bones of upper limb	Diagnosis	ICD-9-CM
170.6	Malignant neoplasm of pelvic bones, sacrum, and coccyx	Diagnosis	ICD-9-CM
170.7	Malignant neoplasm of long bones of lower limb	Diagnosis	ICD-9-CM
170.8	Malignant neoplasm of short bones of lower limb	Diagnosis	ICD-9-CM
170.9	Malignant neoplasm of bone and articular cartilage, site unspecified	Diagnosis	ICD-9-CM
171	Malignant neoplasm of connective and other soft tissue	Diagnosis	ICD-9-CM
171.0	Malignant neoplasm of connective and other soft tissue of head, face, and neck	Diagnosis	ICD-9-CM
171.2	Malignant neoplasm of connective and other soft tissue of upper limb, including shoulder	Diagnosis	ICD-9-CM
171.3	Malignant neoplasm of connective and other soft tissue of lower limb, including hip	Diagnosis	ICD-9-CM
171.4	Malignant neoplasm of connective and other soft tissue of thorax	Diagnosis	ICD-9-CM
171.5	Malignant neoplasm of connective and other soft tissue of abdomen	Diagnosis	ICD-9-CM
171.6	Malignant neoplasm of connective and other soft tissue of pelvis	Diagnosis	ICD-9-CM
171.7	Malignant neoplasm of connective and other soft tissue of trunk, unspecified site	Diagnosis	ICD-9-CM
171.8	Malignant neoplasm of other specified sites of connective and other soft tissue	Diagnosis	ICD-9-CM
171.9	Malignant neoplasm of connective and other soft tissue, site unspecified	Diagnosis	ICD-9-CM
172	Malignant melanoma of skin	Diagnosis	ICD-9-CM
172.0	Malignant melanoma of skin of lip	Diagnosis	ICD-9-CM
172.1	Malignant melanoma of skin of eyelid, including canthus	Diagnosis	ICD-9-CM
172.2	Malignant melanoma of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
172.3	Malignant melanoma of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
172.4	Malignant melanoma of skin of scalp and neck	Diagnosis	ICD-9-CM
172.5	Malignant melanoma of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
172.6	Malignant melanoma of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
172.7	Malignant melanoma of skin of lower limb, including hip	Diagnosis	ICD-9-CM
172.8	Malignant melanoma of other specified sites of skin	Diagnosis	ICD-9-CM
172.9	Melanoma of skin, site unspecified	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
174	Malignant neoplasm of female breast	Diagnosis	ICD-9-CM
174.0	Malignant neoplasm of nipple and areola of female breast	Diagnosis	ICD-9-CM
174.1	Malignant neoplasm of central portion of female breast	Diagnosis	ICD-9-CM
174.2	Malignant neoplasm of upper-inner quadrant of female breast	Diagnosis	ICD-9-CM
174.3	Malignant neoplasm of lower-inner quadrant of female breast	Diagnosis	ICD-9-CM
174.4	Malignant neoplasm of upper-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.5	Malignant neoplasm of lower-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.6	Malignant neoplasm of axillary tail of female breast	Diagnosis	ICD-9-CM
174.8	Malignant neoplasm of other specified sites of female breast	Diagnosis	ICD-9-CM
174.9	Malignant neoplasm of breast (female), unspecified site	Diagnosis	ICD-9-CM
175	Malignant neoplasm of male breast	Diagnosis	ICD-9-CM
175.0	Malignant neoplasm of nipple and areola of male breast	Diagnosis	ICD-9-CM
175.9	Malignant neoplasm of other and unspecified sites of male breast	Diagnosis	ICD-9-CM
176	Kaposi's sarcoma	Diagnosis	ICD-9-CM
176.0	Kaposi's sarcoma of skin	Diagnosis	ICD-9-CM
176.1	Kaposi's sarcoma of soft tissue	Diagnosis	ICD-9-CM
176.2	Kaposi's sarcoma of palate	Diagnosis	ICD-9-CM
176.3	Kaposi's sarcoma of gastrointestinal sites	Diagnosis	ICD-9-CM
176.4	Kaposi's sarcoma of lung	Diagnosis	ICD-9-CM
176.5	Kaposi's sarcoma of lymph nodes	Diagnosis	ICD-9-CM
176.8	Kaposi's sarcoma of other specified sites	Diagnosis	ICD-9-CM
176.9	Kaposi's sarcoma of unspecified site	Diagnosis	ICD-9-CM
179	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-9-CM
180	Malignant neoplasm of cervix uteri	Diagnosis	ICD-9-CM
180.0	Malignant neoplasm of endocervix	Diagnosis	ICD-9-CM
180.1	Malignant neoplasm of exocervix	Diagnosis	ICD-9-CM
180.8	Malignant neoplasm of other specified sites of cervix	Diagnosis	ICD-9-CM
180.9	Malignant neoplasm of cervix uteri, unspecified site	Diagnosis	ICD-9-CM
181	Malignant neoplasm of placenta	Diagnosis	ICD-9-CM
182	Malignant neoplasm of body of uterus	Diagnosis	ICD-9-CM
182.0	Malignant neoplasm of corpus uteri, except isthmus	Diagnosis	ICD-9-CM
182.1	Malignant neoplasm of isthmus	Diagnosis	ICD-9-CM
182.8	Malignant neoplasm of other specified sites of body of uterus	Diagnosis	ICD-9-CM
183	Malignant neoplasm of ovary and other uterine adnexa	Diagnosis	ICD-9-CM
183.0	Malignant neoplasm of ovary	Diagnosis	ICD-9-CM
183.2	Malignant neoplasm of fallopian tube	Diagnosis	ICD-9-CM
183.3	Malignant neoplasm of broad ligament of uterus	Diagnosis	ICD-9-CM
183.4	Malignant neoplasm of parametrium of uterus	Diagnosis	ICD-9-CM
183.5	Malignant neoplasm of round ligament of uterus	Diagnosis	ICD-9-CM
183.8	Malignant neoplasm of other specified sites of uterine adnexa	Diagnosis	ICD-9-CM
183.9	Malignant neoplasm of uterine adnexa, unspecified site	Diagnosis	ICD-9-CM
184	Malignant neoplasm of other and unspecified female genital organs	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
184.0	Malignant neoplasm of vagina	Diagnosis	ICD-9-CM
184.1	Malignant neoplasm of labia majora	Diagnosis	ICD-9-CM
184.2	Malignant neoplasm of labia minora	Diagnosis	ICD-9-CM
184.3	Malignant neoplasm of clitoris	Diagnosis	ICD-9-CM
184.4	Malignant neoplasm of vulva, unspecified site	Diagnosis	ICD-9-CM
184.8	Malignant neoplasm of other specified sites of female genital organs	Diagnosis	ICD-9-CM
184.9	Malignant neoplasm of female genital organ, site unspecified	Diagnosis	ICD-9-CM
185	Malignant neoplasm of prostate	Diagnosis	ICD-9-CM
186	Malignant neoplasm of testis	Diagnosis	ICD-9-CM
186.0	Malignant neoplasm of undescended testis	Diagnosis	ICD-9-CM
186.9	Malignant neoplasm of other and unspecified testis	Diagnosis	ICD-9-CM
187	Malignant neoplasm of penis and other male genital organs	Diagnosis	ICD-9-CM
187.1	Malignant neoplasm of prepuce	Diagnosis	ICD-9-CM
187.2	Malignant neoplasm of glans penis	Diagnosis	ICD-9-CM
187.3	Malignant neoplasm of body of penis	Diagnosis	ICD-9-CM
187.4	Malignant neoplasm of penis, part unspecified	Diagnosis	ICD-9-CM
187.5	Malignant neoplasm of epididymis	Diagnosis	ICD-9-CM
187.6	Malignant neoplasm of spermatic cord	Diagnosis	ICD-9-CM
187.7	Malignant neoplasm of scrotum	Diagnosis	ICD-9-CM
187.8	Malignant neoplasm of other specified sites of male genital organs	Diagnosis	ICD-9-CM
187.9	Malignant neoplasm of male genital organ, site unspecified	Diagnosis	ICD-9-CM
188	Malignant neoplasm of bladder	Diagnosis	ICD-9-CM
188.0	Malignant neoplasm of trigone of urinary bladder	Diagnosis	ICD-9-CM
188.1	Malignant neoplasm of dome of urinary bladder	Diagnosis	ICD-9-CM
188.2	Malignant neoplasm of lateral wall of urinary bladder	Diagnosis	ICD-9-CM
188.3	Malignant neoplasm of anterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.4	Malignant neoplasm of posterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-9-CM
188.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-9-CM
188.7	Malignant neoplasm of urachus	Diagnosis	ICD-9-CM
188.8	Malignant neoplasm of other specified sites of bladder	Diagnosis	ICD-9-CM
188.9	Malignant neoplasm of bladder, part unspecified	Diagnosis	ICD-9-CM
189	Malignant neoplasm of kidney and other and unspecified urinary organs	Diagnosis	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
189.1	Malignant neoplasm of renal pelvis	Diagnosis	ICD-9-CM
189.2	Malignant neoplasm of ureter	Diagnosis	ICD-9-CM
189.3	Malignant neoplasm of urethra	Diagnosis	ICD-9-CM
189.4	Malignant neoplasm of paraurethral glands	Diagnosis	ICD-9-CM
189.8	Malignant neoplasm of other specified sites of urinary organs	Diagnosis	ICD-9-CM
189.9	Malignant neoplasm of urinary organ, site unspecified	Diagnosis	ICD-9-CM
190	Malignant neoplasm of eye	Diagnosis	ICD-9-CM
190.0	Malignant neoplasm of eyeball, except conjunctiva, cornea, retina, and choroid	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
190.1	Malignant neoplasm of orbit	Diagnosis	ICD-9-CM
190.2	Malignant neoplasm of lacrimal gland	Diagnosis	ICD-9-CM
190.3	Malignant neoplasm of conjunctiva	Diagnosis	ICD-9-CM
190.4	Malignant neoplasm of cornea	Diagnosis	ICD-9-CM
190.5	Malignant neoplasm of retina	Diagnosis	ICD-9-CM
190.6	Malignant neoplasm of choroid	Diagnosis	ICD-9-CM
190.7	Malignant neoplasm of lacrimal duct	Diagnosis	ICD-9-CM
190.8	Malignant neoplasm of other specified sites of eye	Diagnosis	ICD-9-CM
190.9	Malignant neoplasm of eye, part unspecified	Diagnosis	ICD-9-CM
193	Malignant neoplasm of thyroid gland	Diagnosis	ICD-9-CM
194	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.0	Malignant neoplasm of adrenal gland	Diagnosis	ICD-9-CM
194.1	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-9-CM
194.3	Malignant neoplasm of pituitary gland and craniopharyngeal duct	Diagnosis	ICD-9-CM
194.4	Malignant neoplasm of pineal gland	Diagnosis	ICD-9-CM
194.5	Malignant neoplasm of carotid body	Diagnosis	ICD-9-CM
194.6	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-9-CM
194.8	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.9	Malignant neoplasm of endocrine gland, site unspecified	Diagnosis	ICD-9-CM
195	Malignant neoplasm of other and ill-defined sites	Diagnosis	ICD-9-CM
195.0	Malignant neoplasm of head, face, and neck	Diagnosis	ICD-9-CM
195.1	Malignant neoplasm of thorax	Diagnosis	ICD-9-CM
195.2	Malignant neoplasm of abdomen	Diagnosis	ICD-9-CM
195.3	Malignant neoplasm of pelvis	Diagnosis	ICD-9-CM
195.4	Malignant neoplasm of upper limb	Diagnosis	ICD-9-CM
195.5	Malignant neoplasm of lower limb	Diagnosis	ICD-9-CM
195.8	Malignant neoplasm of other specified sites	Diagnosis	ICD-9-CM
196	Secondary and unspecified malignant neoplasm of lymph nodes	Diagnosis	ICD-9-CM
196.0	Secondary and unspecified malignant neoplasm of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
196.1	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
196.2	Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
196.3	Secondary and unspecified malignant neoplasm of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
196.5	Secondary and unspecified malignant neoplasm of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
196.6	Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
196.8	Secondary and unspecified malignant neoplasm of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
196.9	Secondary and unspecified malignant neoplasm of lymph nodes, site unspecified	Diagnosis	ICD-9-CM
197	Secondary malignant neoplasm of respiratory and digestive systems	Diagnosis	ICD-9-CM
197.0	Secondary malignant neoplasm of lung	Diagnosis	ICD-9-CM
197.1	Secondary malignant neoplasm of mediastinum	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
197.2	Secondary malignant neoplasm of pleura	Diagnosis	ICD-9-CM
197.3	Secondary malignant neoplasm of other respiratory organs	Diagnosis	ICD-9-CM
197.4	Secondary malignant neoplasm of small intestine including duodenum	Diagnosis	ICD-9-CM
197.5	Secondary malignant neoplasm of large intestine and rectum	Diagnosis	ICD-9-CM
197.6	Secondary malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-9-CM
197.7	Secondary malignant neoplasm of liver	Diagnosis	ICD-9-CM
197.8	Secondary malignant neoplasm of other digestive organs and spleen	Diagnosis	ICD-9-CM
198	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-9-CM
198.0	Secondary malignant neoplasm of kidney	Diagnosis	ICD-9-CM
198.1	Secondary malignant neoplasm of other urinary organs	Diagnosis	ICD-9-CM
198.2	Secondary malignant neoplasm of skin	Diagnosis	ICD-9-CM
198.5	Secondary malignant neoplasm of bone and bone marrow	Diagnosis	ICD-9-CM
198.6	Secondary malignant neoplasm of ovary	Diagnosis	ICD-9-CM
198.7	Secondary malignant neoplasm of adrenal gland	Diagnosis	ICD-9-CM
198.8	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-9-CM
198.81	Secondary malignant neoplasm of breast	Diagnosis	ICD-9-CM
198.82	Secondary malignant neoplasm of genital organs	Diagnosis	ICD-9-CM
198.89	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-9-CM
199	Malignant neoplasm without specification of site	Diagnosis	ICD-9-CM
199.0	Disseminated malignant neoplasm	Diagnosis	ICD-9-CM
199.1	Other malignant neoplasm of unspecified site	Diagnosis	ICD-9-CM
199.2	Malignant neoplasm associated with transplanted organ	Diagnosis	ICD-9-CM
200	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue	Diagnosis	ICD-9-CM
200.0	Reticulosarcoma	Diagnosis	ICD-9-CM
200.00	Reticulosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.01	Reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.02	Reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.03	Reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.04	Reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.05	Reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.06	Reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.07	Reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.08	Reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.1	Lymphosarcoma	Diagnosis	ICD-9-CM
200.10	Lymphosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.11	Lymphosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.12	Lymphosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.13	Lymphosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.14	Lymphosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.15	Lymphosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.16	Lymphosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
200.17	Lymphosarcoma of spleen	Diagnosis	ICD-9-CM
200.18	Lymphosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.2	Burkitt's tumor or lymphoma	Diagnosis	ICD-9-CM
200.20	Burkitt's tumor or lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.21	Burkitt's tumor or lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.22	Burkitt's tumor or lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.23	Burkitt's tumor or lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.24	Burkitt's tumor or lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.25	Burkitt's tumor or lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.26	Burkitt's tumor or lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.27	Burkitt's tumor or lymphoma of spleen	Diagnosis	ICD-9-CM
200.28	Burkitt's tumor or lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.3	Marginal zone lymphoma	Diagnosis	ICD-9-CM
200.30	Marginal zone lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.31	Marginal zone lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.32	Marginal zone lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.33	Marginal zone lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.34	Marginal zone lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.35	Marginal zone lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.36	Marginal zone lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.37	Marginal zone lymphoma, spleen	Diagnosis	ICD-9-CM
200.38	Marginal zone lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.4	Mantle cell lymphoma	Diagnosis	ICD-9-CM
200.40	Mantle cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.41	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.42	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.43	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.44	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.45	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.46	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.47	Mantle cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.48	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.5	Primary central nervous system lymphoma	Diagnosis	ICD-9-CM
200.50	Primary central nervous system lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.51	Primary central nervous system lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.52	Primary central nervous system lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.53	Primary central nervous system lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.54	Primary central nervous system lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
200.55	Primary central nervous system lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.56	Primary central nervous system lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.57	Primary central nervous system lymphoma, spleen	Diagnosis	ICD-9-CM
200.58	Primary central nervous system lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.6	Anaplastic large cell lymphoma	Diagnosis	ICD-9-CM
200.60	Anaplastic large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.61	Anaplastic large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.62	Anaplastic large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.63	Anaplastic large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.64	Anaplastic large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.65	Anaplastic large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.66	Anaplastic large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.67	Anaplastic large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.68	Anaplastic large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.7	Large cell lymphoma	Diagnosis	ICD-9-CM
200.70	Large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.71	Large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.72	Large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.73	Large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.74	Large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.75	Large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.76	Large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.77	Large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.78	Large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.8	Other named variants of lymphosarcoma and reticulosarcoma	Diagnosis	ICD-9-CM
200.80	Other named variants, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.81	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.82	Other named variants of lymphosarcoma and reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.83	Other named variants of lymphosarcoma and reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.84	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.85	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.86	Other named variants of lymphosarcoma and reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.87	Other named variants of lymphosarcoma and reticulosarcoma of spleen	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
200.88	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
209.00	Malignant carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-9-CM
209.01	Malignant carcinoid tumor of the duodenum	Diagnosis	ICD-9-CM
209.02	Malignant carcinoid tumor of the jejunum	Diagnosis	ICD-9-CM
209.03	Malignant carcinoid tumor of the ileum	Diagnosis	ICD-9-CM
209.10	Malignant carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-9-CM
209.11	Malignant carcinoid tumor of the appendix	Diagnosis	ICD-9-CM
209.12	Malignant carcinoid tumor of the cecum	Diagnosis	ICD-9-CM
209.13	Malignant carcinoid tumor of the ascending colon	Diagnosis	ICD-9-CM
209.14	Malignant carcinoid tumor of the transverse colon	Diagnosis	ICD-9-CM
209.15	Malignant carcinoid tumor of the descending colon	Diagnosis	ICD-9-CM
209.16	Malignant carcinoid tumor of the sigmoid colon	Diagnosis	ICD-9-CM
209.17	Malignant carcinoid tumor of the rectum	Diagnosis	ICD-9-CM
209.20	Malignant carcinoid tumor of unknown primary site	Diagnosis	ICD-9-CM
209.21	Malignant carcinoid tumor of the bronchus and lung	Diagnosis	ICD-9-CM
209.22	Malignant carcinoid tumor of the thymus	Diagnosis	ICD-9-CM
209.23	Malignant carcinoid tumor of the stomach	Diagnosis	ICD-9-CM
209.24	Malignant carcinoid tumor of the kidney	Diagnosis	ICD-9-CM
209.25	Malignant carcinoid tumor of foregut, not otherwise specified	Diagnosis	ICD-9-CM
209.26	Malignant carcinoid tumor of midgut, not otherwise specified	Diagnosis	ICD-9-CM
209.27	Malignant carcinoid tumor of hindgut, not otherwise specified	Diagnosis	ICD-9-CM
209.29	Malignant carcinoid tumor of other sites	Diagnosis	ICD-9-CM
209.30	Malignant poorly differentiated neuroendocrine carcinoma, any site	Diagnosis	ICD-9-CM
209.31	Merkel cell carcinoma of the face	Diagnosis	ICD-9-CM
209.32	Merkel cell carcinoma of the scalp and neck	Diagnosis	ICD-9-CM
209.33	Merkel cell carcinoma of the upper limb	Diagnosis	ICD-9-CM
209.34	Merkel cell carcinoma of the lower limb	Diagnosis	ICD-9-CM
209.35	Merkel cell carcinoma of the trunk	Diagnosis	ICD-9-CM
209.36	Merkel cell carcinoma of other sites	Diagnosis	ICD-9-CM
209.70	Secondary neuroendocrine tumor, unspecified site	Diagnosis	ICD-9-CM
209.71	Secondary neuroendocrine tumor of distant lymph nodes	Diagnosis	ICD-9-CM
209.72	Secondary neuroendocrine tumor of liver	Diagnosis	ICD-9-CM
209.73	Secondary neuroendocrine tumor of bone	Diagnosis	ICD-9-CM
209.74	Secondary neuroendocrine tumor of peritoneum	Diagnosis	ICD-9-CM
209.75	Secondary Merkel cell carcinoma	Diagnosis	ICD-9-CM
209.79	Secondary neuroendocrine tumor of other sites	Diagnosis	ICD-9-CM
238.79	Other lymphatic and hematopoietic tissues	Diagnosis	ICD-9-CM
273.3	Macroglobulinemia	Diagnosis	ICD-9-CM
C00.0	Malignant neoplasm of external upper lip	Diagnosis	ICD-10-CM
C00.1	Malignant neoplasm of external lower lip	Diagnosis	ICD-10-CM
C00.2	Malignant neoplasm of external lip, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
C00.3	Malignant neoplasm of upper lip, inner aspect	Diagnosis	ICD-10-CM
C00.4	Malignant neoplasm of lower lip, inner aspect	Diagnosis	ICD-10-CM
C00.5	Malignant neoplasm of lip, unspecified, inner aspect	Diagnosis	ICD-10-CM
C00.6	Malignant neoplasm of commissure of lip, unspecified	Diagnosis	ICD-10-CM
C00.8	Malignant neoplasm of overlapping sites of lip	Diagnosis	ICD-10-CM
C00.9	Malignant neoplasm of lip, unspecified	Diagnosis	ICD-10-CM
C01	Malignant neoplasm of base of tongue	Diagnosis	ICD-10-CM
C02.0	Malignant neoplasm of dorsal surface of tongue	Diagnosis	ICD-10-CM
C02.1	Malignant neoplasm of border of tongue	Diagnosis	ICD-10-CM
C02.2	Malignant neoplasm of ventral surface of tongue	Diagnosis	ICD-10-CM
C02.3	Malignant neoplasm of anterior two-thirds of tongue, part unspecified	Diagnosis	ICD-10-CM
C02.4	Malignant neoplasm of lingual tonsil	Diagnosis	ICD-10-CM
C02.8	Malignant neoplasm of overlapping sites of tongue	Diagnosis	ICD-10-CM
C02.9	Malignant neoplasm of tongue, unspecified	Diagnosis	ICD-10-CM
C03.0	Malignant neoplasm of upper gum	Diagnosis	ICD-10-CM
C03.1	Malignant neoplasm of lower gum	Diagnosis	ICD-10-CM
C03.9	Malignant neoplasm of gum, unspecified	Diagnosis	ICD-10-CM
C04.0	Malignant neoplasm of anterior floor of mouth	Diagnosis	ICD-10-CM
C04.1	Malignant neoplasm of lateral floor of mouth	Diagnosis	ICD-10-CM
C04.8	Malignant neoplasm of overlapping sites of floor of mouth	Diagnosis	ICD-10-CM
C04.9	Malignant neoplasm of floor of mouth, unspecified	Diagnosis	ICD-10-CM
C05.0	Malignant neoplasm of hard palate	Diagnosis	ICD-10-CM
C05.1	Malignant neoplasm of soft palate	Diagnosis	ICD-10-CM
C05.2	Malignant neoplasm of uvula	Diagnosis	ICD-10-CM
C05.8	Malignant neoplasm of overlapping sites of palate	Diagnosis	ICD-10-CM
C05.9	Malignant neoplasm of palate, unspecified	Diagnosis	ICD-10-CM
C06.0	Malignant neoplasm of cheek mucosa	Diagnosis	ICD-10-CM
C06.1	Malignant neoplasm of vestibule of mouth	Diagnosis	ICD-10-CM
C06.2	Malignant neoplasm of retromolar area	Diagnosis	ICD-10-CM
C06.80	Malignant neoplasm of overlapping sites of unspecified parts of mouth	Diagnosis	ICD-10-CM
C06.89	Malignant neoplasm of overlapping sites of other parts of mouth	Diagnosis	ICD-10-CM
C06.9	Malignant neoplasm of mouth, unspecified	Diagnosis	ICD-10-CM
C07	Malignant neoplasm of parotid gland	Diagnosis	ICD-10-CM
C08.0	Malignant neoplasm of submandibular gland	Diagnosis	ICD-10-CM
C08.1	Malignant neoplasm of sublingual gland	Diagnosis	ICD-10-CM
C08.9	Malignant neoplasm of major salivary gland, unspecified	Diagnosis	ICD-10-CM
C09.0	Malignant neoplasm of tonsillar fossa	Diagnosis	ICD-10-CM
C09.1	Malignant neoplasm of tonsillar pillar (anterior) (posterior)	Diagnosis	ICD-10-CM
C09.8	Malignant neoplasm of overlapping sites of tonsil	Diagnosis	ICD-10-CM
C09.9	Malignant neoplasm of tonsil, unspecified	Diagnosis	ICD-10-CM
C10.0	Malignant neoplasm of vallecula	Diagnosis	ICD-10-CM
C10.1	Malignant neoplasm of anterior surface of epiglottis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C10.2	Malignant neoplasm of lateral wall of oropharynx	Diagnosis	ICD-10-CM
C10.3	Malignant neoplasm of posterior wall of oropharynx	Diagnosis	ICD-10-CM
C10.4	Malignant neoplasm of branchial cleft	Diagnosis	ICD-10-CM
C10.8	Malignant neoplasm of overlapping sites of oropharynx	Diagnosis	ICD-10-CM
C10.9	Malignant neoplasm of oropharynx, unspecified	Diagnosis	ICD-10-CM
C11.0	Malignant neoplasm of superior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.1	Malignant neoplasm of posterior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.2	Malignant neoplasm of lateral wall of nasopharynx	Diagnosis	ICD-10-CM
C11.3	Malignant neoplasm of anterior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.8	Malignant neoplasm of overlapping sites of nasopharynx	Diagnosis	ICD-10-CM
C11.9	Malignant neoplasm of nasopharynx, unspecified	Diagnosis	ICD-10-CM
C12	Malignant neoplasm of pyriform sinus	Diagnosis	ICD-10-CM
C13.0	Malignant neoplasm of postcricoid region	Diagnosis	ICD-10-CM
C13.1	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	Diagnosis	ICD-10-CM
C13.2	Malignant neoplasm of posterior wall of hypopharynx	Diagnosis	ICD-10-CM
C13.8	Malignant neoplasm of overlapping sites of hypopharynx	Diagnosis	ICD-10-CM
C13.9	Malignant neoplasm of hypopharynx, unspecified	Diagnosis	ICD-10-CM
C14.0	Malignant neoplasm of pharynx, unspecified	Diagnosis	ICD-10-CM
C14.2	Malignant neoplasm of Waldeyer's ring	Diagnosis	ICD-10-CM
C14.8	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
C15.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-10-CM
C15.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-10-CM
C15.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-10-CM
C15.8	Malignant neoplasm of overlapping sites of esophagus	Diagnosis	ICD-10-CM
C15.9	Malignant neoplasm of esophagus, unspecified	Diagnosis	ICD-10-CM
C16.0	Malignant neoplasm of cardia	Diagnosis	ICD-10-CM
C16.1	Malignant neoplasm of fundus of stomach	Diagnosis	ICD-10-CM
C16.2	Malignant neoplasm of body of stomach	Diagnosis	ICD-10-CM
C16.3	Malignant neoplasm of pyloric antrum	Diagnosis	ICD-10-CM
C16.4	Malignant neoplasm of pylorus	Diagnosis	ICD-10-CM
C16.5	Malignant neoplasm of lesser curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C16.6	Malignant neoplasm of greater curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C16.8	Malignant neoplasm of overlapping sites of stomach	Diagnosis	ICD-10-CM
C16.9	Malignant neoplasm of stomach, unspecified	Diagnosis	ICD-10-CM
C17.0	Malignant neoplasm of duodenum	Diagnosis	ICD-10-CM
C17.1	Malignant neoplasm of jejunum	Diagnosis	ICD-10-CM
C17.2	Malignant neoplasm of ileum	Diagnosis	ICD-10-CM
C17.3	Meckel's diverticulum, malignant	Diagnosis	ICD-10-CM
C17.8	Malignant neoplasm of overlapping sites of small intestine	Diagnosis	ICD-10-CM
C17.9	Malignant neoplasm of small intestine, unspecified	Diagnosis	ICD-10-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C21.0	Malignant neoplasm of anus, unspecified	Diagnosis	ICD-10-CM
C21.1	Malignant neoplasm of anal canal	Diagnosis	ICD-10-CM
C21.2	Malignant neoplasm of cloacogenic zone	Diagnosis	ICD-10-CM
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM
C22.0	Liver cell carcinoma	Diagnosis	ICD-10-CM
C22.1	Intrahepatic bile duct carcinoma	Diagnosis	ICD-10-CM
C22.2	Hepatoblastoma	Diagnosis	ICD-10-CM
C22.3	Angiosarcoma of liver	Diagnosis	ICD-10-CM
C22.4	Other sarcomas of liver	Diagnosis	ICD-10-CM
C22.7	Other specified carcinomas of liver	Diagnosis	ICD-10-CM
C22.8	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
C22.9	Malignant neoplasm of liver, not specified as primary or secondary	Diagnosis	ICD-10-CM
C23	Malignant neoplasm of gallbladder	Diagnosis	ICD-10-CM
C24.0	Malignant neoplasm of extrahepatic bile duct	Diagnosis	ICD-10-CM
C24.1	Malignant neoplasm of ampulla of Vater	Diagnosis	ICD-10-CM
C24.8	Malignant neoplasm of overlapping sites of biliary tract	Diagnosis	ICD-10-CM
C24.9	Malignant neoplasm of biliary tract, unspecified	Diagnosis	ICD-10-CM
C25.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-10-CM
C25.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-10-CM
C25.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-10-CM
C25.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-10-CM
C25.4	Malignant neoplasm of endocrine pancreas	Diagnosis	ICD-10-CM
C25.7	Malignant neoplasm of other parts of pancreas	Diagnosis	ICD-10-CM
C25.8	Malignant neoplasm of overlapping sites of pancreas	Diagnosis	ICD-10-CM
C25.9	Malignant neoplasm of pancreas, unspecified	Diagnosis	ICD-10-CM
C26.0	Malignant neoplasm of intestinal tract, part unspecified	Diagnosis	ICD-10-CM
C26.1	Malignant neoplasm of spleen	Diagnosis	ICD-10-CM
C26.9	Malignant neoplasm of ill-defined sites within the digestive system	Diagnosis	ICD-10-CM
C30.0	Malignant neoplasm of nasal cavity	Diagnosis	ICD-10-CM
C30.1	Malignant neoplasm of middle ear	Diagnosis	ICD-10-CM
C31.0	Malignant neoplasm of maxillary sinus	Diagnosis	ICD-10-CM
C31.1	Malignant neoplasm of ethmoidal sinus	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C31.2	Malignant neoplasm of frontal sinus	Diagnosis	ICD-10-CM
C31.3	Malignant neoplasm of sphenoid sinus	Diagnosis	ICD-10-CM
C31.8	Malignant neoplasm of overlapping sites of accessory sinuses	Diagnosis	ICD-10-CM
C31.9	Malignant neoplasm of accessory sinus, unspecified	Diagnosis	ICD-10-CM
C32.0	Malignant neoplasm of glottis	Diagnosis	ICD-10-CM
C32.1	Malignant neoplasm of supraglottis	Diagnosis	ICD-10-CM
C32.2	Malignant neoplasm of subglottis	Diagnosis	ICD-10-CM
C32.3	Malignant neoplasm of laryngeal cartilage	Diagnosis	ICD-10-CM
C32.8	Malignant neoplasm of overlapping sites of larynx	Diagnosis	ICD-10-CM
C32.9	Malignant neoplasm of larynx, unspecified	Diagnosis	ICD-10-CM
C33	Malignant neoplasm of trachea	Diagnosis	ICD-10-CM
C34.00	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
C37	Malignant neoplasm of thymus	Diagnosis	ICD-10-CM
C38.0	Malignant neoplasm of heart	Diagnosis	ICD-10-CM
C38.1	Malignant neoplasm of anterior mediastinum	Diagnosis	ICD-10-CM
C38.2	Malignant neoplasm of posterior mediastinum	Diagnosis	ICD-10-CM
C38.3	Malignant neoplasm of mediastinum, part unspecified	Diagnosis	ICD-10-CM
C38.4	Malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C38.8	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura	Diagnosis	ICD-10-CM
C39.0	Malignant neoplasm of upper respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C39.9	Malignant neoplasm of lower respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C40.00	Malignant neoplasm of scapula and long bones of unspecified upper limb	Diagnosis	ICD-10-CM
C40.01	Malignant neoplasm of scapula and long bones of right upper limb	Diagnosis	ICD-10-CM
C40.02	Malignant neoplasm of scapula and long bones of left upper limb	Diagnosis	ICD-10-CM
C40.10	Malignant neoplasm of short bones of unspecified upper limb	Diagnosis	ICD-10-CM
C40.11	Malignant neoplasm of short bones of right upper limb	Diagnosis	ICD-10-CM
C40.12	Malignant neoplasm of short bones of left upper limb	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C40.20	Malignant neoplasm of long bones of unspecified lower limb	Diagnosis	ICD-10-CM
C40.21	Malignant neoplasm of long bones of right lower limb	Diagnosis	ICD-10-CM
C40.22	Malignant neoplasm of long bones of left lower limb	Diagnosis	ICD-10-CM
C40.30	Malignant neoplasm of short bones of unspecified lower limb	Diagnosis	ICD-10-CM
C40.31	Malignant neoplasm of short bones of right lower limb	Diagnosis	ICD-10-CM
C40.32	Malignant neoplasm of short bones of left lower limb	Diagnosis	ICD-10-CM
C40.80	Malignant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C40.81	Malignant neoplasm of overlapping sites of bone and articular cartilage of right limb	Diagnosis	ICD-10-CM
C40.82	Malignant neoplasm of overlapping sites of bone and articular cartilage of left limb	Diagnosis	ICD-10-CM
C40.90	Malignant neoplasm of unspecified bones and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C40.91	Malignant neoplasm of unspecified bones and articular cartilage of right limb	Diagnosis	ICD-10-CM
C40.92	Malignant neoplasm of unspecified bones and articular cartilage of left limb	Diagnosis	ICD-10-CM
C41.0	Malignant neoplasm of bones of skull and face	Diagnosis	ICD-10-CM
C41.1	Malignant neoplasm of mandible	Diagnosis	ICD-10-CM
C41.2	Malignant neoplasm of vertebral column	Diagnosis	ICD-10-CM
C41.3	Malignant neoplasm of ribs, sternum and clavicle	Diagnosis	ICD-10-CM
C41.4	Malignant neoplasm of pelvic bones, sacrum and coccyx	Diagnosis	ICD-10-CM
C41.9	Malignant neoplasm of bone and articular cartilage, unspecified	Diagnosis	ICD-10-CM
C43.0	Malignant melanoma of lip	Diagnosis	ICD-10-CM
C43.10	Malignant melanoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C43.11	Malignant melanoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C43.12	Malignant melanoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C43.20	Malignant melanoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C43.21	Malignant melanoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C43.22	Malignant melanoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C43.30	Malignant melanoma of unspecified part of face	Diagnosis	ICD-10-CM
C43.31	Malignant melanoma of nose	Diagnosis	ICD-10-CM
C43.39	Malignant melanoma of other parts of face	Diagnosis	ICD-10-CM
C43.4	Malignant melanoma of scalp and neck	Diagnosis	ICD-10-CM
C43.51	Malignant melanoma of anal skin	Diagnosis	ICD-10-CM
C43.52	Malignant melanoma of skin of breast	Diagnosis	ICD-10-CM
C43.59	Malignant melanoma of other part of trunk	Diagnosis	ICD-10-CM
C43.60	Malignant melanoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.61	Malignant melanoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.62	Malignant melanoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.70	Malignant melanoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C43.71	Malignant melanoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C43.72	Malignant melanoma of left lower limb, including hip	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C43.8	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C43.9	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
C45.0	Mesothelioma of pleura	Diagnosis	ICD-10-CM
C45.1	Mesothelioma of peritoneum	Diagnosis	ICD-10-CM
C45.2	Mesothelioma of pericardium	Diagnosis	ICD-10-CM
C45.7	Mesothelioma of other sites	Diagnosis	ICD-10-CM
C45.9	Mesothelioma, unspecified	Diagnosis	ICD-10-CM
C46.0	Kaposi's sarcoma of skin	Diagnosis	ICD-10-CM
C46.1	Kaposi's sarcoma of soft tissue	Diagnosis	ICD-10-CM
C46.2	Kaposi's sarcoma of palate	Diagnosis	ICD-10-CM
C46.3	Kaposi's sarcoma of lymph nodes	Diagnosis	ICD-10-CM
C46.4	Kaposi's sarcoma of gastrointestinal sites	Diagnosis	ICD-10-CM
C46.50	Kaposi's sarcoma of unspecified lung	Diagnosis	ICD-10-CM
C46.51	Kaposi's sarcoma of right lung	Diagnosis	ICD-10-CM
C46.52	Kaposi's sarcoma of left lung	Diagnosis	ICD-10-CM
C46.7	Kaposi's sarcoma of other sites	Diagnosis	ICD-10-CM
C46.9	Kaposi's sarcoma, unspecified	Diagnosis	ICD-10-CM
C47.0	Malignant neoplasm of peripheral nerves of head, face and neck	Diagnosis	ICD-10-CM
C47.10	Malignant neoplasm of peripheral nerves of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.11	Malignant neoplasm of peripheral nerves of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.12	Malignant neoplasm of peripheral nerves of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.20	Malignant neoplasm of peripheral nerves of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C47.21	Malignant neoplasm of peripheral nerves of right lower limb, including hip	Diagnosis	ICD-10-CM
C47.22	Malignant neoplasm of peripheral nerves of left lower limb, including hip	Diagnosis	ICD-10-CM
C47.3	Malignant neoplasm of peripheral nerves of thorax	Diagnosis	ICD-10-CM
C47.4	Malignant neoplasm of peripheral nerves of abdomen	Diagnosis	ICD-10-CM
C47.5	Malignant neoplasm of peripheral nerves of pelvis	Diagnosis	ICD-10-CM
C47.6	Malignant neoplasm of peripheral nerves of trunk, unspecified	Diagnosis	ICD-10-CM
C47.8	Malignant neoplasm of overlapping sites of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
C47.9	Malignant neoplasm of peripheral nerves and autonomic nervous system, unspecified	Diagnosis	ICD-10-CM
C48.0	Malignant neoplasm of retroperitoneum	Diagnosis	ICD-10-CM
C48.1	Malignant neoplasm of specified parts of peritoneum	Diagnosis	ICD-10-CM
C48.2	Malignant neoplasm of peritoneum, unspecified	Diagnosis	ICD-10-CM
C48.8	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C49.0	Malignant neoplasm of connective and soft tissue of head, face and neck	Diagnosis	ICD-10-CM
C49.10	Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C49.11	Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C49.12	Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C49.20	Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C49.21	Malignant neoplasm of connective and soft tissue of right lower limb, including hip	Diagnosis	ICD-10-CM
C49.22	Malignant neoplasm of connective and soft tissue of left lower limb, including hip	Diagnosis	ICD-10-CM
C49.3	Malignant neoplasm of connective and soft tissue of thorax	Diagnosis	ICD-10-CM
C49.4	Malignant neoplasm of connective and soft tissue of abdomen	Diagnosis	ICD-10-CM
C49.5	Malignant neoplasm of connective and soft tissue of pelvis	Diagnosis	ICD-10-CM
C49.6	Malignant neoplasm of connective and soft tissue of trunk, unspecified	Diagnosis	ICD-10-CM
C49.8	Malignant neoplasm of overlapping sites of connective and soft tissue	Diagnosis	ICD-10-CM
C49.9	Malignant neoplasm of connective and soft tissue, unspecified	Diagnosis	ICD-10-CM
C49.A0	Gastrointestinal stromal tumor, unspecified site	Diagnosis	ICD-10-CM
C49.A1	Gastrointestinal stromal tumor of esophagus	Diagnosis	ICD-10-CM
C49.A2	Gastrointestinal stromal tumor of stomach	Diagnosis	ICD-10-CM
C49.A3	Gastrointestinal stromal tumor of small intestine	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
C49.A9	Gastrointestinal stromal tumor of other sites	Diagnosis	ICD-10-CM
C4A.0	Merkel cell carcinoma of lip	Diagnosis	ICD-10-CM
C4A.10	Merkel cell carcinoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C4A.11	Merkel cell carcinoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C4A.12	Merkel cell carcinoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C4A.20	Merkel cell carcinoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C4A.21	Merkel cell carcinoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C4A.22	Merkel cell carcinoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C4A.30	Merkel cell carcinoma of unspecified part of face	Diagnosis	ICD-10-CM
C4A.31	Merkel cell carcinoma of nose	Diagnosis	ICD-10-CM
C4A.39	Merkel cell carcinoma of other parts of face	Diagnosis	ICD-10-CM
C4A.4	Merkel cell carcinoma of scalp and neck	Diagnosis	ICD-10-CM
C4A.51	Merkel cell carcinoma of anal skin	Diagnosis	ICD-10-CM
C4A.52	Merkel cell carcinoma of skin of breast	Diagnosis	ICD-10-CM
C4A.59	Merkel cell carcinoma of other part of trunk	Diagnosis	ICD-10-CM
C4A.60	Merkel cell carcinoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A.61	Merkel cell carcinoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A.62	Merkel cell carcinoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A.70	Merkel cell carcinoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C4A.71	Merkel cell carcinoma of right lower limb, including hip	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C4A.72	Merkel cell carcinoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C4A.8	Merkel cell carcinoma of overlapping sites	Diagnosis	ICD-10-CM
C4A.9	Merkel cell carcinoma, unspecified	Diagnosis	ICD-10-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
C50.622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C50.811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C51.0	Malignant neoplasm of labium majus	Diagnosis	ICD-10-CM
C51.1	Malignant neoplasm of labium minus	Diagnosis	ICD-10-CM
C51.2	Malignant neoplasm of clitoris	Diagnosis	ICD-10-CM
C51.8	Malignant neoplasm of overlapping sites of vulva	Diagnosis	ICD-10-CM
C51.9	Malignant neoplasm of vulva, unspecified	Diagnosis	ICD-10-CM
C52	Malignant neoplasm of vagina	Diagnosis	ICD-10-CM
C53.0	Malignant neoplasm of endocervix	Diagnosis	ICD-10-CM
C53.1	Malignant neoplasm of exocervix	Diagnosis	ICD-10-CM
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C53.9	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
C56.1	Malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C56.2	Malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C56.9	Malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C57.00	Malignant neoplasm of unspecified fallopian tube	Diagnosis	ICD-10-CM
C57.01	Malignant neoplasm of right fallopian tube	Diagnosis	ICD-10-CM
C57.02	Malignant neoplasm of left fallopian tube	Diagnosis	ICD-10-CM
C57.10	Malignant neoplasm of unspecified broad ligament	Diagnosis	ICD-10-CM
C57.11	Malignant neoplasm of right broad ligament	Diagnosis	ICD-10-CM
C57.12	Malignant neoplasm of left broad ligament	Diagnosis	ICD-10-CM
C57.20	Malignant neoplasm of unspecified round ligament	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C57.21	Malignant neoplasm of right round ligament	Diagnosis	ICD-10-CM
C57.22	Malignant neoplasm of left round ligament	Diagnosis	ICD-10-CM
C57.3	Malignant neoplasm of parametrium	Diagnosis	ICD-10-CM
C57.4	Malignant neoplasm of uterine adnexa, unspecified	Diagnosis	ICD-10-CM
C57.7	Malignant neoplasm of other specified female genital organs	Diagnosis	ICD-10-CM
C57.8	Malignant neoplasm of overlapping sites of female genital organs	Diagnosis	ICD-10-CM
C57.9	Malignant neoplasm of female genital organ, unspecified	Diagnosis	ICD-10-CM
C58	Malignant neoplasm of placenta	Diagnosis	ICD-10-CM
C60.0	Malignant neoplasm of prepuce	Diagnosis	ICD-10-CM
C60.1	Malignant neoplasm of glans penis	Diagnosis	ICD-10-CM
C60.2	Malignant neoplasm of body of penis	Diagnosis	ICD-10-CM
C60.8	Malignant neoplasm of overlapping sites of penis	Diagnosis	ICD-10-CM
C60.9	Malignant neoplasm of penis, unspecified	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
C62.00	Malignant neoplasm of unspecified undescended testis	Diagnosis	ICD-10-CM
C62.01	Malignant neoplasm of undescended right testis	Diagnosis	ICD-10-CM
C62.02	Malignant neoplasm of undescended left testis	Diagnosis	ICD-10-CM
C62.10	Malignant neoplasm of unspecified descended testis	Diagnosis	ICD-10-CM
C62.11	Malignant neoplasm of descended right testis	Diagnosis	ICD-10-CM
C62.12	Malignant neoplasm of descended left testis	Diagnosis	ICD-10-CM
C62.90	Malignant neoplasm of unspecified testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.91	Malignant neoplasm of right testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.92	Malignant neoplasm of left testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C63.00	Malignant neoplasm of unspecified epididymis	Diagnosis	ICD-10-CM
C63.01	Malignant neoplasm of right epididymis	Diagnosis	ICD-10-CM
C63.02	Malignant neoplasm of left epididymis	Diagnosis	ICD-10-CM
C63.10	Malignant neoplasm of unspecified spermatic cord	Diagnosis	ICD-10-CM
C63.11	Malignant neoplasm of right spermatic cord	Diagnosis	ICD-10-CM
C63.12	Malignant neoplasm of left spermatic cord	Diagnosis	ICD-10-CM
C63.2	Malignant neoplasm of scrotum	Diagnosis	ICD-10-CM
C63.7	Malignant neoplasm of other specified male genital organs	Diagnosis	ICD-10-CM
C63.8	Malignant neoplasm of overlapping sites of male genital organs	Diagnosis	ICD-10-CM
C63.9	Malignant neoplasm of male genital organ, unspecified	Diagnosis	ICD-10-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.1	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C65.2	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C65.9	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C66.1	Malignant neoplasm of right ureter	Diagnosis	ICD-10-CM
C66.2	Malignant neoplasm of left ureter	Diagnosis	ICD-10-CM
C66.9	Malignant neoplasm of unspecified ureter	Diagnosis	ICD-10-CM
C67.0	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C67.1	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C67.2	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C67.3	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C67.4	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C67.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C67.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-10-CM
C67.7	Malignant neoplasm of urachus	Diagnosis	ICD-10-CM
C67.8	Malignant neoplasm of overlapping sites of bladder	Diagnosis	ICD-10-CM
C67.9	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM
C68.0	Malignant neoplasm of urethra	Diagnosis	ICD-10-CM
C68.1	Malignant neoplasm of paraurethral glands	Diagnosis	ICD-10-CM
C68.8	Malignant neoplasm of overlapping sites of urinary organs	Diagnosis	ICD-10-CM
C68.9	Malignant neoplasm of urinary organ, unspecified	Diagnosis	ICD-10-CM
C69.00	Malignant neoplasm of unspecified conjunctiva	Diagnosis	ICD-10-CM
C69.01	Malignant neoplasm of right conjunctiva	Diagnosis	ICD-10-CM
C69.02	Malignant neoplasm of left conjunctiva	Diagnosis	ICD-10-CM
C69.10	Malignant neoplasm of unspecified cornea	Diagnosis	ICD-10-CM
C69.11	Malignant neoplasm of right cornea	Diagnosis	ICD-10-CM
C69.12	Malignant neoplasm of left cornea	Diagnosis	ICD-10-CM
C69.20	Malignant neoplasm of unspecified retina	Diagnosis	ICD-10-CM
C69.21	Malignant neoplasm of right retina	Diagnosis	ICD-10-CM
C69.22	Malignant neoplasm of left retina	Diagnosis	ICD-10-CM
C69.30	Malignant neoplasm of unspecified choroid	Diagnosis	ICD-10-CM
C69.31	Malignant neoplasm of right choroid	Diagnosis	ICD-10-CM
C69.32	Malignant neoplasm of left choroid	Diagnosis	ICD-10-CM
C69.40	Malignant neoplasm of unspecified ciliary body	Diagnosis	ICD-10-CM
C69.41	Malignant neoplasm of right ciliary body	Diagnosis	ICD-10-CM
C69.42	Malignant neoplasm of left ciliary body	Diagnosis	ICD-10-CM
C69.50	Malignant neoplasm of unspecified lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.51	Malignant neoplasm of right lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.52	Malignant neoplasm of left lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.60	Malignant neoplasm of unspecified orbit	Diagnosis	ICD-10-CM
C69.61	Malignant neoplasm of right orbit	Diagnosis	ICD-10-CM
C69.62	Malignant neoplasm of left orbit	Diagnosis	ICD-10-CM
C69.80	Malignant neoplasm of overlapping sites of unspecified eye and adnexa	Diagnosis	ICD-10-CM
C69.81	Malignant neoplasm of overlapping sites of right eye and adnexa	Diagnosis	ICD-10-CM
C69.82	Malignant neoplasm of overlapping sites of left eye and adnexa	Diagnosis	ICD-10-CM
C69.90	Malignant neoplasm of unspecified site of unspecified eye	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
C69.91	Malignant neoplasm of unspecified site of right eye	Diagnosis	ICD-10-CM
C69.92	Malignant neoplasm of unspecified site of left eye	Diagnosis	ICD-10-CM
C73	Malignant neoplasm of thyroid gland	Diagnosis	ICD-10-CM
C74.00	Malignant neoplasm of cortex of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.01	Malignant neoplasm of cortex of right adrenal gland	Diagnosis	ICD-10-CM
C74.02	Malignant neoplasm of cortex of left adrenal gland	Diagnosis	ICD-10-CM
C74.10	Malignant neoplasm of medulla of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.11	Malignant neoplasm of medulla of right adrenal gland	Diagnosis	ICD-10-CM
C74.12	Malignant neoplasm of medulla of left adrenal gland	Diagnosis	ICD-10-CM
C74.90	Malignant neoplasm of unspecified part of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.91	Malignant neoplasm of unspecified part of right adrenal gland	Diagnosis	ICD-10-CM
C74.92	Malignant neoplasm of unspecified part of left adrenal gland	Diagnosis	ICD-10-CM
C75.0	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-10-CM
C75.1	Malignant neoplasm of pituitary gland	Diagnosis	ICD-10-CM
C75.2	Malignant neoplasm of craniopharyngeal duct	Diagnosis	ICD-10-CM
C75.3	Malignant neoplasm of pineal gland	Diagnosis	ICD-10-CM
C75.4	Malignant neoplasm of carotid body	Diagnosis	ICD-10-CM
C75.5	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-10-CM
C75.8	Malignant neoplasm with pluriglandular involvement, unspecified	Diagnosis	ICD-10-CM
C75.9	Malignant neoplasm of endocrine gland, unspecified	Diagnosis	ICD-10-CM
C76.0	Malignant neoplasm of head, face and neck	Diagnosis	ICD-10-CM
C76.1	Malignant neoplasm of thorax	Diagnosis	ICD-10-CM
C76.2	Malignant neoplasm of abdomen	Diagnosis	ICD-10-CM
C76.3	Malignant neoplasm of pelvis	Diagnosis	ICD-10-CM
C76.40	Malignant neoplasm of unspecified upper limb	Diagnosis	ICD-10-CM
C76.41	Malignant neoplasm of right upper limb	Diagnosis	ICD-10-CM
C76.42	Malignant neoplasm of left upper limb	Diagnosis	ICD-10-CM
C76.50	Malignant neoplasm of unspecified lower limb	Diagnosis	ICD-10-CM
C76.51	Malignant neoplasm of right lower limb	Diagnosis	ICD-10-CM
C76.52	Malignant neoplasm of left lower limb	Diagnosis	ICD-10-CM
C76.8	Malignant neoplasm of other specified ill-defined sites	Diagnosis	ICD-10-CM
C77.0	Secondary and unspecified malignant neoplasm of lymph nodes of head, face and neck	Diagnosis	ICD-10-CM
C77.1	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C77.2	Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C77.3	Secondary and unspecified malignant neoplasm of axilla and upper limb lymph nodes	Diagnosis	ICD-10-CM
C77.4	Secondary and unspecified malignant neoplasm of inguinal and lower limb lymph nodes	Diagnosis	ICD-10-CM
C77.5	Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C77.8	Secondary and unspecified malignant neoplasm of lymph nodes of multiple regions	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
C77.9	Secondary and unspecified malignant neoplasm of lymph node, unspecified	Diagnosis	ICD-10-CM
C78.00	Secondary malignant neoplasm of unspecified lung	Diagnosis	ICD-10-CM
C78.01	Secondary malignant neoplasm of right lung	Diagnosis	ICD-10-CM
C78.02	Secondary malignant neoplasm of left lung	Diagnosis	ICD-10-CM
C78.1	Secondary malignant neoplasm of mediastinum	Diagnosis	ICD-10-CM
C78.2	Secondary malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C78.30	Secondary malignant neoplasm of unspecified respiratory organ	Diagnosis	ICD-10-CM
C78.39	Secondary malignant neoplasm of other respiratory organs	Diagnosis	ICD-10-CM
C78.4	Secondary malignant neoplasm of small intestine	Diagnosis	ICD-10-CM
C78.5	Secondary malignant neoplasm of large intestine and rectum	Diagnosis	ICD-10-CM
C78.6	Secondary malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C78.7	Secondary malignant neoplasm of liver and intrahepatic bile duct	Diagnosis	ICD-10-CM
C78.80	Secondary malignant neoplasm of unspecified digestive organ	Diagnosis	ICD-10-CM
C78.89	Secondary malignant neoplasm of other digestive organs	Diagnosis	ICD-10-CM
C79.00	Secondary malignant neoplasm of unspecified kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.01	Secondary malignant neoplasm of right kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.02	Secondary malignant neoplasm of left kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.10	Secondary malignant neoplasm of unspecified urinary organs	Diagnosis	ICD-10-CM
C79.11	Secondary malignant neoplasm of bladder	Diagnosis	ICD-10-CM
C79.19	Secondary malignant neoplasm of other urinary organs	Diagnosis	ICD-10-CM
C79.2	Secondary malignant neoplasm of skin	Diagnosis	ICD-10-CM
C79.51	Secondary malignant neoplasm of bone	Diagnosis	ICD-10-CM
C79.52	Secondary malignant neoplasm of bone marrow	Diagnosis	ICD-10-CM
C79.60	Secondary malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C79.61	Secondary malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C79.62	Secondary malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C79.70	Secondary malignant neoplasm of unspecified adrenal gland	Diagnosis	ICD-10-CM
C79.71	Secondary malignant neoplasm of right adrenal gland	Diagnosis	ICD-10-CM
C79.72	Secondary malignant neoplasm of left adrenal gland	Diagnosis	ICD-10-CM
C79.81	Secondary malignant neoplasm of breast	Diagnosis	ICD-10-CM
C79.82	Secondary malignant neoplasm of genital organs	Diagnosis	ICD-10-CM
C79.89	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-10-CM
C79.9	Secondary malignant neoplasm of unspecified site	Diagnosis	ICD-10-CM
C7A.00	Malignant carcinoid tumor of unspecified site	Diagnosis	ICD-10-CM
C7A.010	Malignant carcinoid tumor of the duodenum	Diagnosis	ICD-10-CM
C7A.011	Malignant carcinoid tumor of the jejunum	Diagnosis	ICD-10-CM
C7A.012	Malignant carcinoid tumor of the ileum	Diagnosis	ICD-10-CM
C7A.019	Malignant carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A.020	Malignant carcinoid tumor of the appendix	Diagnosis	ICD-10-CM
C7A.021	Malignant carcinoid tumor of the cecum	Diagnosis	ICD-10-CM
C7A.022	Malignant carcinoid tumor of the ascending colon	Diagnosis	ICD-10-CM
C7A.023	Malignant carcinoid tumor of the transverse colon	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
C7A.024	Malignant carcinoid tumor of the descending colon	Diagnosis	ICD-10-CM
C7A.025	Malignant carcinoid tumor of the sigmoid colon	Diagnosis	ICD-10-CM
C7A.026	Malignant carcinoid tumor of the rectum	Diagnosis	ICD-10-CM
C7A.029	Malignant carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A.090	Malignant carcinoid tumor of the bronchus and lung	Diagnosis	ICD-10-CM
C7A.091	Malignant carcinoid tumor of the thymus	Diagnosis	ICD-10-CM
C7A.092	Malignant carcinoid tumor of the stomach	Diagnosis	ICD-10-CM
C7A.093	Malignant carcinoid tumor of the kidney	Diagnosis	ICD-10-CM
C7A.094	Malignant carcinoid tumor of the foregut, unspecified	Diagnosis	ICD-10-CM
C7A.095	Malignant carcinoid tumor of the midgut, unspecified	Diagnosis	ICD-10-CM
C7A.096	Malignant carcinoid tumor of the hindgut, unspecified	Diagnosis	ICD-10-CM
C7A.098	Malignant carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7A.1	Malignant poorly differentiated neuroendocrine tumors	Diagnosis	ICD-10-CM
C7A.8	Other malignant neuroendocrine tumors	Diagnosis	ICD-10-CM
C7B.00	Secondary carcinoid tumors, unspecified site	Diagnosis	ICD-10-CM
C7B.01	Secondary carcinoid tumors of distant lymph nodes	Diagnosis	ICD-10-CM
C7B.02	Secondary carcinoid tumors of liver	Diagnosis	ICD-10-CM
C7B.03	Secondary carcinoid tumors of bone	Diagnosis	ICD-10-CM
C7B.04	Secondary carcinoid tumors of peritoneum	Diagnosis	ICD-10-CM
C7B.09	Secondary carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7B.1	Secondary Merkel cell carcinoma	Diagnosis	ICD-10-CM
C7B.8	Other secondary neuroendocrine tumors	Diagnosis	ICD-10-CM
C80.0	Disseminated malignant neoplasm, unspecified	Diagnosis	ICD-10-CM
C80.1	Malignant (primary) neoplasm, unspecified	Diagnosis	ICD-10-CM
C80.2	Malignant neoplasm associated with transplanted organ	Diagnosis	ICD-10-CM
C86.6	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C88.0	Waldenstrom macroglobulinemia	Diagnosis	ICD-10-CM
C88.2	Heavy chain disease	Diagnosis	ICD-10-CM
C88.3	Immunoproliferative small intestinal disease	Diagnosis	ICD-10-CM
C88.8	Other malignant immunoproliferative diseases	Diagnosis	ICD-10-CM
C88.9	Malignant immunoproliferative disease, unspecified	Diagnosis	ICD-10-CM
Diabetes Mellitus			
249	Secondary diabetes mellitus	Diagnosis	ICD-9-CM
249.0	Secondary diabetes mellitus without mention of complication	Diagnosis	ICD-9-CM
249.00	Secondary diabetes mellitus without mention of complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.01	Secondary diabetes mellitus without mention of complication, uncontrolled	Diagnosis	ICD-9-CM
249.1	Secondary diabetes mellitus with ketoacidosis	Diagnosis	ICD-9-CM
249.10	Secondary diabetes mellitus with ketoacidosis, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	Diagnosis	ICD-9-CM
249.2	Secondary diabetes mellitus with hyperosmolarity	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
249.20	Secondary diabetes mellitus with hyperosmolarity, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	Diagnosis	ICD-9-CM
249.3	Secondary diabetes mellitus with other coma	Diagnosis	ICD-9-CM
249.30	Secondary diabetes mellitus with other coma, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.31	Secondary diabetes mellitus with other coma, uncontrolled	Diagnosis	ICD-9-CM
249.4	Secondary diabetes mellitus with renal manifestations	Diagnosis	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.5	Secondary diabetes mellitus with ophthalmic manifestations	Diagnosis	ICD-9-CM
249.50	Secondary diabetes mellitus with ophthalmic manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.51	Secondary diabetes mellitus with ophthalmic manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.6	Secondary diabetes mellitus with neurological manifestations	Diagnosis	ICD-9-CM
249.60	Secondary diabetes mellitus with neurological manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.61	Secondary diabetes mellitus with neurological manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.7	Secondary diabetes mellitus with peripheral circulatory disorders	Diagnosis	ICD-9-CM
249.70	Secondary diabetes mellitus with peripheral circulatory disorders, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.71	Secondary diabetes mellitus with peripheral circulatory disorders, uncontrolled	Diagnosis	ICD-9-CM
249.8	Secondary diabetes mellitus with other specified manifestations	Diagnosis	ICD-9-CM
249.80	Secondary diabetes mellitus with other specified manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.81	Secondary diabetes mellitus with other specified manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.9	Secondary diabetes mellitus with unspecified complication	Diagnosis	ICD-9-CM
249.90	Secondary diabetes mellitus with unspecified complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.91	Secondary diabetes mellitus with unspecified complication, uncontrolled	Diagnosis	ICD-9-CM
250	Diabetes mellitus	Diagnosis	ICD-9-CM
250.0	Diabetes mellitus without mention of complication	Diagnosis	ICD-9-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.1	Diabetes with ketoacidosis	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.2	Diabetes with hyperosmolarity	Diagnosis	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.3	Diabetes with other coma	Diagnosis	ICD-9-CM
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.4	Diabetes with renal manifestations	Diagnosis	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.5	Diabetes with ophthalmic manifestations	Diagnosis	ICD-9-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.6	Diabetes with neurological manifestations	Diagnosis	ICD-9-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.7	Diabetes with peripheral circulatory disorders	Diagnosis	ICD-9-CM
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.8	Diabetes with other specified manifestations	Diagnosis	ICD-9-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.9	Diabetes with unspecified complication	Diagnosis	ICD-9-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
357.2	Polyneuropathy in diabetes	Diagnosis	ICD-9-CM
648.0	Maternal diabetes mellitus complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
648.00	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	Diagnosis	ICD-9-CM
648.01	Maternal diabetes mellitus with delivery	Diagnosis	ICD-9-CM
648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.03	Maternal diabetes mellitus, antepartum	Diagnosis	ICD-9-CM
648.04	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
775.1	Neonatal diabetes mellitus	Diagnosis	ICD-9-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	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
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	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
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	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
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	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
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	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
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	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
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	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
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified 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
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified 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
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	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
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified 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
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified 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
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	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
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	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
E08.3542	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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
E08.3549	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
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified 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
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	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
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	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
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	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
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified 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
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left 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
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified 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
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left 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
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified 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
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
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
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
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	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
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified 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
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified 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
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left 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
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified 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
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left 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
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
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
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	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
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	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
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	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
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified 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
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left 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
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified 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
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	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
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	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
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	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
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
O24.011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.02	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.03	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24.111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.12	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.13	Pre-existing type 2 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24.311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.32	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
O24.33	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24.811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.82	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.83	Other pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24.911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.92	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.93	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
P70.2	Neonatal diabetes mellitus	Diagnosis	ICD-10-CM
Epilepsy			
345	Epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.0	Generalized nonconvulsive epilepsy	Diagnosis	ICD-9-CM
345.00	Generalized nonconvulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.01	Generalized nonconvulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.1	Generalized convulsive epilepsy	Diagnosis	ICD-9-CM
345.10	Generalized convulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.11	Generalized convulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.2	Epileptic petit mal status	Diagnosis	ICD-9-CM
345.3	Epileptic grand mal status	Diagnosis	ICD-9-CM
345.4	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures	Diagnosis	ICD-9-CM
345.40	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.41	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.5	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures	Diagnosis	ICD-9-CM
345.50	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.51	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.6	Infantile spasms	Diagnosis	ICD-9-CM
345.60	Infantile spasms without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.61	Infantile spasms with intractable epilepsy	Diagnosis	ICD-9-CM
345.7	Epilepsia partialis continua	Diagnosis	ICD-9-CM
345.70	Epilepsia partialis continua without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.71	Epilepsia partialis continua with intractable epilepsy	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
345.8	Other forms of epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.80	Other forms of epilepsy and recurrent seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.81	Other forms of epilepsy and recurrent seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.9	Unspecified epilepsy	Diagnosis	ICD-9-CM
345.90	Unspecified epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.91	Unspecified epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
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 C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
G40.501	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
G40.89	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
Fetal Alcohol Syndrome			
760.71	Noxious influences affecting fetus or newborn via placenta or breast milk, alcohol	Diagnosis	ICD-9-CM
P04.3	Newborn affected by maternal use of alcohol	Diagnosis	ICD-10-CM
Q86.0	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
Hypertension			

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
362.11	Hypertensive retinopathy	Diagnosis	ICD-9-CM
401	Essential hypertension	Diagnosis	ICD-9-CM
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM
402	Hypertensive heart disease	Diagnosis	ICD-9-CM
402.0	Malignant hypertensive heart disease	Diagnosis	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.1	Benign hypertensive heart disease	Diagnosis	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.9	Unspecified hypertensive heart disease	Diagnosis	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM
403	Hypertensive chronic kidney disease	Diagnosis	ICD-9-CM
403.0	Hypertensive chronic kidney disease, malignant	Diagnosis	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.1	Hypertensive chronic kidney disease, benign	Diagnosis	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404	Hypertensive heart and chronic kidney disease	Diagnosis	ICD-9-CM
404.0	Hypertensive heart and chronic kidney disease, malignant	Diagnosis	ICD-9-CM
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.1	Hypertensive heart and chronic kidney disease, benign	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.9	Hypertensive heart and chronic kidney disease, unspecified	Diagnosis	ICD-9-CM
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
405	Secondary hypertension	Diagnosis	ICD-9-CM
405.0	Secondary hypertension, malignant	Diagnosis	ICD-9-CM
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM
405.1	Secondary hypertension, benign	Diagnosis	ICD-9-CM
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM
437.2	Hypertensive encephalopathy	Diagnosis	ICD-9-CM
997.91	Hypertension	Diagnosis	ICD-9-CM
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11	Hypertensive heart 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
I12	Hypertensive 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
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
I13	Hypertensive heart and chronic kidney 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
I13.1	Hypertensive heart and chronic kidney disease without heart failure	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
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
I15	Secondary hypertension	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
Influenza			
487	Influenza	Diagnosis	ICD-9-CM
487.0	Influenza with pneumonia	Diagnosis	ICD-9-CM
487.1	Influenza with other respiratory manifestations	Diagnosis	ICD-9-CM
487.8	Influenza with other manifestations	Diagnosis	ICD-9-CM
488	Influenza due to certain identified influenza viruses	Diagnosis	ICD-9-CM
488.0	Influenza due to identified avian influenza virus	Diagnosis	ICD-9-CM
488.01	Influenza due to identified avian influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.02	Influenza due to identified avian influenza virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.09	Influenza due to identified avian influenza virus with other manifestations	Diagnosis	ICD-9-CM
488.1	Influenza due to identified 2009 H1N1 influenza virus	Diagnosis	ICD-9-CM
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.12	Influenza due to identified 2009 H1N1 influenza virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.19	Influenza due to identified 2009 H1N1 influenza virus with other manifestations	Diagnosis	ICD-9-CM
488.8	Influenza due to novel influenza A	Diagnosis	ICD-9-CM
488.81	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-9-CM
488.82	Influenza due to identified novel influenza A virus with other respiratory manifestations	Diagnosis	ICD-9-CM
488.89	Influenza due to identified novel influenza A virus with other manifestations	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
J10.00	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
J10.81	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
J11.00	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
J11.81	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
Intellectual Disabilities and Related Conditions			
317	Mild intellectual disabilities	Diagnosis	ICD-9-CM
318	Other specified intellectual disabilities	Diagnosis	ICD-9-CM
318.0	Mod intellect disability	Diagnosis	ICD-9-CM
318.1	Sev intellect disability	Diagnosis	ICD-9-CM
318.2	Profnd intellct disablty	Diagnosis	ICD-9-CM
319	Intellectual disability NOS	Diagnosis	ICD-9-CM
758	Chromosomal anomalies	Diagnosis	ICD-9-CM
758.0	Down's syndrome	Diagnosis	ICD-9-CM
758.1	Patau's syndrome	Diagnosis	ICD-9-CM
758.2	Edwards' syndrome	Diagnosis	ICD-9-CM
758.3	Autosomal deletion syndromes	Diagnosis	ICD-9-CM
758.31	Cri-du-chat syndrome	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
758.32	Velo-cardio-facial syndrome	Diagnosis	ICD-9-CM
758.33	Microdeletions NEC	Diagnosis	ICD-9-CM
758.39	Autosomal deletions NEC	Diagnosis	ICD-9-CM
758.5	Autosomal anomalies NEC	Diagnosis	ICD-9-CM
759.7	Multiple congenital anomalies NEC	Diagnosis	ICD-9-CM
759.81	Prader-willi syndrome	Diagnosis	ICD-9-CM
759.83	Fragile x syndrome	Diagnosis	ICD-9-CM
759.89	Specified congenital anomalies NEC	Diagnosis	ICD-9-CM
760.71	Alcohol affecting fetus or newborn via placenta or breast milk	Diagnosis	ICD-9-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	Unspecified intellectual disabilities	Diagnosis	ICD-10-CM
F79	Mild 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 congen malform synd predom assoc with short stature	Diagnosis	ICD-10-CM
Q87.2	Congenital malformation syndromes predom involving limbs	Diagnosis	ICD-10-CM
Q87.3	Congenital malformation syndromes involving early overgrowth	Diagnosis	ICD-10-CM
Q87.5	Oth congenital malformation syndromes w oth skeletal changes	Diagnosis	ICD-10-CM
Q87.81	Alport syndrome	Diagnosis	ICD-10-CM
Q87.89	Oth congenital malformation syndromes, NEC	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
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, nonmosaic (meiotic nondisjunction)	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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, nonmosaic (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.1	Whole chromosome monosomy, mosaic (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
Q93.529	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
Inflammatory Bowel Syndrome			
555	Regional enteritis	Diagnosis	ICD-9-CM
555.0	Regional enteritis of small intestine	Diagnosis	ICD-9-CM
555.1	Regional enteritis of large intestine	Diagnosis	ICD-9-CM
555.2	Regional enteritis of small intestine with large intestine	Diagnosis	ICD-9-CM
555.9	Regional enteritis of unspecified site	Diagnosis	ICD-9-CM
556	Ulcerative colitis	Diagnosis	ICD-9-CM
556.0	Ulcerative (chronic) enterocolitis	Diagnosis	ICD-9-CM
556.1	Ulcerative (chronic) ileocolitis	Diagnosis	ICD-9-CM
556.2	Ulcerative (chronic) proctitis	Diagnosis	ICD-9-CM
556.3	Ulcerative (chronic) proctosigmoiditis	Diagnosis	ICD-9-CM
556.4	Pseudopolyposis of colon	Diagnosis	ICD-9-CM
556.5	Left sided ulcerative (chronic) colitis	Diagnosis	ICD-9-CM
556.6	Universal ulcerative (chronic) colitis	Diagnosis	ICD-9-CM
556.8	Other ulcerative colitis	Diagnosis	ICD-9-CM
556.9	Unspecified ulcerative colitis	Diagnosis	ICD-9-CM
558.2	Toxic gastroenteritis and colitis	Diagnosis	ICD-9-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
K50.011	Crohn's disease of small intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.012	Crohn's disease of small intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.013	Crohn's disease of small intestine with fistula	Diagnosis	ICD-10-CM
K50.014	Crohn's disease of small intestine with abscess	Diagnosis	ICD-10-CM
K50.018	Crohn's disease of small intestine with other complication	Diagnosis	ICD-10-CM
K50.019	Crohn's disease of small intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.811	Crohn's disease of both small and large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.812	Crohn's disease of both small and large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.813	Crohn's disease of both small and large intestine with fistula	Diagnosis	ICD-10-CM
K50.814	Crohn's disease of both small and large intestine with abscess	Diagnosis	ICD-10-CM
K50.818	Crohn's disease of both small and large intestine with other complication	Diagnosis	ICD-10-CM
K50.819	Crohn's disease of both small and large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50.912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50.913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50.914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50.918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
Measles			
055	Measles	Diagnosis	ICD-9-CM
055.0	Postmeasles encephalitis	Diagnosis	ICD-9-CM
055.1	Postmeasles pneumonia	Diagnosis	ICD-9-CM
055.2	Postmeasles otitis media	Diagnosis	ICD-9-CM
055.7	Measles, with other specified complications	Diagnosis	ICD-9-CM
055.71	Measles keratoconjunctivitis	Diagnosis	ICD-9-CM
055.79	Other specified measles complications	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
055.8	Unspecified measles complication	Diagnosis	ICD-9-CM
055.9	Measles without mention of complication	Diagnosis	ICD-9-CM
B05.0	Measles complicated by encephalitis	Diagnosis	ICD-10-CM
B05.1	Measles complicated by meningitis	Diagnosis	ICD-10-CM
B05.2	Measles complicated by pneumonia	Diagnosis	ICD-10-CM
B05.3	Measles complicated by otitis media	Diagnosis	ICD-10-CM
B05.4	Measles with intestinal complications	Diagnosis	ICD-10-CM
B05.81	Measles keratitis and keratoconjunctivitis	Diagnosis	ICD-10-CM
B05.89	Other measles complications	Diagnosis	ICD-10-CM
B05.9	Measles without complication	Diagnosis	ICD-10-CM
Meningitis			
003.21	Salmonella meningitis	Diagnosis	ICD-9-CM
013.0	Tuberculous meningitis	Diagnosis	ICD-9-CM
013.00	Tuberculous meningitis, confirmation unspecified	Diagnosis	ICD-9-CM
013.01	Tuberculous meningitis, bacteriological or histological examination not done	Diagnosis	ICD-9-CM
013.02	Tuberculous meningitis, bacteriological or histological examination unknown (at present)	Diagnosis	ICD-9-CM
013.03	Tuberculous meningitis, tubercle bacilli found (in sputum) by microscopy	Diagnosis	ICD-9-CM
013.04	Tuberculous meningitis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture	Diagnosis	ICD-9-CM
013.05	Tuberculous meningitis, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically	Diagnosis	ICD-9-CM
013.06	Tuberculous meningitis, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]	Diagnosis	ICD-9-CM
036.0	Meningococcal meningitis	Diagnosis	ICD-9-CM
047	Meningitis due to enterovirus	Diagnosis	ICD-9-CM
047.0	Meningitis due to coxsackie virus	Diagnosis	ICD-9-CM
047.1	Meningitis due to ECHO virus	Diagnosis	ICD-9-CM
047.8	Other specified viral meningitis	Diagnosis	ICD-9-CM
047.9	Unspecified viral meningitis	Diagnosis	ICD-9-CM
049.0	Lymphocytic choriomeningitis	Diagnosis	ICD-9-CM
049.1	Meningitis due to adenovirus	Diagnosis	ICD-9-CM
053.0	Herpes zoster with meningitis	Diagnosis	ICD-9-CM
054.72	Herpes simplex meningitis	Diagnosis	ICD-9-CM
072.1	Mumps meningitis	Diagnosis	ICD-9-CM
090.42	Congenital syphilitic meningitis	Diagnosis	ICD-9-CM
091.81	Early syphilis, acute syphilitic meningitis (secondary)	Diagnosis	ICD-9-CM
094.2	Syphilitic meningitis	Diagnosis	ICD-9-CM
098.82	Gonococcal meningitis	Diagnosis	ICD-9-CM
100.81	Leptospiral meningitis (aseptic)	Diagnosis	ICD-9-CM
112.83	Candidal meningitis	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
114.2	Coccidioidal meningitis	Diagnosis	ICD-9-CM
115.01	Histoplasma capsulatum meningitis	Diagnosis	ICD-9-CM
115.11	Histoplasma duboisii meningitis	Diagnosis	ICD-9-CM
115.91	Unspecified Histoplasmosis meningitis	Diagnosis	ICD-9-CM
320	Bacterial meningitis	Diagnosis	ICD-9-CM
320.0	Hemophilus meningitis	Diagnosis	ICD-9-CM
320.1	Pneumococcal meningitis	Diagnosis	ICD-9-CM
320.2	Streptococcal meningitis	Diagnosis	ICD-9-CM
320.3	Staphylococcal meningitis	Diagnosis	ICD-9-CM
320.7	Meningitis in other bacterial diseases classified elsewhere	Diagnosis	ICD-9-CM
320.8	Meningitis due to other specified bacteria	Diagnosis	ICD-9-CM
320.81	Anaerobic meningitis	Diagnosis	ICD-9-CM
320.82	Meningitis due to gram-negative bacteria, not elsewhere classified	Diagnosis	ICD-9-CM
320.89	Meningitis due to other specified bacteria	Diagnosis	ICD-9-CM
320.9	Meningitis due to unspecified bacterium	Diagnosis	ICD-9-CM
321	Meningitis due to other organisms	Diagnosis	ICD-9-CM
321.0	Cryptococcal meningitis	Diagnosis	ICD-9-CM
321.1	Meningitis in other fungal diseases	Diagnosis	ICD-9-CM
321.2	Meningitis due to viruses not elsewhere classified	Diagnosis	ICD-9-CM
321.3	Meningitis due to trypanosomiasis	Diagnosis	ICD-9-CM
321.4	Meningitis in sarcoidosis	Diagnosis	ICD-9-CM
321.8	Meningitis due to other nonbacterial organisms classified elsewhere	Diagnosis	ICD-9-CM
322	Meningitis of unspecified cause	Diagnosis	ICD-9-CM
322.0	Nonpyogenic meningitis	Diagnosis	ICD-9-CM
322.1	Eosinophilic meningitis	Diagnosis	ICD-9-CM
322.2	Chronic meningitis	Diagnosis	ICD-9-CM
322.9	Unspecified meningitis	Diagnosis	ICD-9-CM
A02.21	Salmonella meningitis	Diagnosis	ICD-10-CM
A17.0	Tuberculous meningitis	Diagnosis	ICD-10-CM
A27.81	Aseptic meningitis in leptospirosis	Diagnosis	ICD-10-CM
A39.0	Meningococcal meningitis	Diagnosis	ICD-10-CM
A50.41	Late congenital syphilitic meningitis	Diagnosis	ICD-10-CM
A51.41	Secondary syphilitic meningitis	Diagnosis	ICD-10-CM
A52.13	Late syphilitic meningitis	Diagnosis	ICD-10-CM
A54.81	Gonococcal meningitis	Diagnosis	ICD-10-CM
A87.0	Enteroviral meningitis	Diagnosis	ICD-10-CM
A87.1	Adenoviral meningitis	Diagnosis	ICD-10-CM
A87.2	Lymphocytic choriomeningitis	Diagnosis	ICD-10-CM
A87.8	Other viral meningitis	Diagnosis	ICD-10-CM
A87.9	Viral meningitis, unspecified	Diagnosis	ICD-10-CM
B00.3	Herpesviral meningitis	Diagnosis	ICD-10-CM
B02.1	Zoster meningitis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
B26.1	Mumps meningitis	Diagnosis	ICD-10-CM
B37.5	Candidal meningitis	Diagnosis	ICD-10-CM
B38.4	Coccidioidomycosis meningitis	Diagnosis	ICD-10-CM
B39.4	Histoplasmosis capsulati, unspecified	Diagnosis	ICD-10-CM
B39.5	Histoplasmosis duboisii	Diagnosis	ICD-10-CM
B39.9	Histoplasmosis, unspecified	Diagnosis	ICD-10-CM
B45.1	Cerebral cryptococcosis	Diagnosis	ICD-10-CM
G00.0	Hemophilus meningitis	Diagnosis	ICD-10-CM
G00.1	Pneumococcal meningitis	Diagnosis	ICD-10-CM
G00.2	Streptococcal meningitis	Diagnosis	ICD-10-CM
G00.3	Staphylococcal meningitis	Diagnosis	ICD-10-CM
G00.8	Other bacterial meningitis	Diagnosis	ICD-10-CM
G00.9	Bacterial meningitis, unspecified	Diagnosis	ICD-10-CM
G01	Meningitis in bacterial diseases classified elsewhere	Diagnosis	ICD-10-CM
G02	Meningitis in other infectious and parasitic diseases classified elsewhere	Diagnosis	ICD-10-CM
G03.0	Nonpyogenic meningitis	Diagnosis	ICD-10-CM
G03.1	Chronic meningitis	Diagnosis	ICD-10-CM
G03.2	Benign recurrent meningitis [Mollaret]	Diagnosis	ICD-10-CM
G03.8	Meningitis due to other specified causes	Diagnosis	ICD-10-CM
G03.9	Meningitis, unspecified	Diagnosis	ICD-10-CM
G04.2	Bacterial meningoencephalitis and meningomyelitis, not elsewhere classified	Diagnosis	ICD-10-CM
Mumps			
072	Mumps	Diagnosis	ICD-9-CM
072.0	Mumps orchitis	Diagnosis	ICD-9-CM
072.1	Mumps meningitis	Diagnosis	ICD-9-CM
072.2	Mumps encephalitis	Diagnosis	ICD-9-CM
072.3	Mumps pancreatitis	Diagnosis	ICD-9-CM
072.7	Mumps with other specified complications	Diagnosis	ICD-9-CM
072.71	Mumps hepatitis	Diagnosis	ICD-9-CM
072.72	Mumps polyneuropathy	Diagnosis	ICD-9-CM
072.79	Mumps with other specified complications	Diagnosis	ICD-9-CM
072.8	Unspecified mumps complication	Diagnosis	ICD-9-CM
072.9	Mumps without mention of complication	Diagnosis	ICD-9-CM
B26.0	Mumps orchitis	Diagnosis	ICD-10-CM
B26.1	Mumps meningitis	Diagnosis	ICD-10-CM
B26.2	Mumps encephalitis	Diagnosis	ICD-10-CM
B26.3	Mumps pancreatitis	Diagnosis	ICD-10-CM
B26.81	Mumps hepatitis	Diagnosis	ICD-10-CM
B26.82	Mumps myocarditis	Diagnosis	ICD-10-CM
B26.83	Mumps nephritis	Diagnosis	ICD-10-CM
B26.84	Mumps polyneuropathy	Diagnosis	ICD-10-CM
B26.85	Mumps arthritis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
B26.89	Other mumps complications	Diagnosis	ICD-10-CM
B26.9	Mumps without complication	Diagnosis	ICD-10-CM
Otitis Media			
055.2	Postmeasles otitis media	Diagnosis	ICD-9-CM
381	Nonsuppurative otitis media and Eustachian tube disorders	Diagnosis	ICD-9-CM
381.0	Acute nonsuppurative otitis media	Diagnosis	ICD-9-CM
381.00	Unspecified acute nonsuppurative otitis media	Diagnosis	ICD-9-CM
381.01	Acute serous otitis media	Diagnosis	ICD-9-CM
381.02	Acute mucoid otitis media	Diagnosis	ICD-9-CM
381.03	Acute sanguinous otitis media	Diagnosis	ICD-9-CM
381.04	Acute allergic serous otitis media	Diagnosis	ICD-9-CM
381.05	Acute allergic mucoid otitis media	Diagnosis	ICD-9-CM
381.06	Acute allergic sanguinous otitis media	Diagnosis	ICD-9-CM
381.1	Chronic serous otitis media	Diagnosis	ICD-9-CM
381.10	Simple or unspecified chronic serous otitis media	Diagnosis	ICD-9-CM
381.19	Other chronic serous otitis media	Diagnosis	ICD-9-CM
381.2	Chronic mucoid otitis media	Diagnosis	ICD-9-CM
381.20	Simple or unspecified chronic mucoid otitis media	Diagnosis	ICD-9-CM
381.29	Other chronic mucoid otitis media	Diagnosis	ICD-9-CM
381.3	Other and unspecified chronic nonsuppurative otitis media	Diagnosis	ICD-9-CM
381.4	Nonsuppurative otitis media, not specified as acute or chronic	Diagnosis	ICD-9-CM
382	Suppurative and unspecified otitis media	Diagnosis	ICD-9-CM
382.0	Acute suppurative otitis media	Diagnosis	ICD-9-CM
382.00	Acute suppurative otitis media without spontaneous rupture of eardrum	Diagnosis	ICD-9-CM
382.01	Acute suppurative otitis media with spontaneous rupture of eardrum	Diagnosis	ICD-9-CM
382.02	Acute suppurative otitis media in diseases classified elsewhere	Diagnosis	ICD-9-CM
382.1	Chronic tubotympanic suppurative otitis media	Diagnosis	ICD-9-CM
382.2	Chronic atticofacial suppurative otitis media	Diagnosis	ICD-9-CM
382.3	Unspecified chronic suppurative otitis media	Diagnosis	ICD-9-CM
382.4	Unspecified suppurative otitis media	Diagnosis	ICD-9-CM
382.9	Unspecified otitis media	Diagnosis	ICD-9-CM
384.0	Acute myringitis without mention of otitis media	Diagnosis	ICD-9-CM
384.09	Other acute myringitis without mention of otitis media	Diagnosis	ICD-9-CM
384.1	Chronic myringitis without mention of otitis media	Diagnosis	ICD-9-CM
B05.3	Measles complicated by otitis media	Diagnosis	ICD-10-CM
H65.00	Acute serous otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.01	Acute serous otitis media, right ear	Diagnosis	ICD-10-CM
H65.02	Acute serous otitis media, left ear	Diagnosis	ICD-10-CM
H65.03	Acute serous otitis media, bilateral	Diagnosis	ICD-10-CM
H65.04	Acute serous otitis media, recurrent, right ear	Diagnosis	ICD-10-CM
H65.05	Acute serous otitis media, recurrent, left ear	Diagnosis	ICD-10-CM
H65.06	Acute serous otitis media, recurrent, bilateral	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
H65.07	Acute serous otitis media, recurrent, unspecified ear	Diagnosis	ICD-10-CM
H65.111	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), right ear	Diagnosis	ICD-10-CM
H65.112	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), left ear	Diagnosis	ICD-10-CM
H65.113	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), bilateral	Diagnosis	ICD-10-CM
H65.114	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), recurrent, right ear	Diagnosis	ICD-10-CM
H65.115	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), recurrent, left ear	Diagnosis	ICD-10-CM
H65.116	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), recurrent, bilateral	Diagnosis	ICD-10-CM
H65.117	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), recurrent, unspecified ear	Diagnosis	ICD-10-CM
H65.119	Acute and subacute allergic otitis media (mucoid) (sanguinous) (serous), unspecified ear	Diagnosis	ICD-10-CM
H65.191	Other acute nonsuppurative otitis media, right ear	Diagnosis	ICD-10-CM
H65.192	Other acute nonsuppurative otitis media, left ear	Diagnosis	ICD-10-CM
H65.193	Other acute nonsuppurative otitis media, bilateral	Diagnosis	ICD-10-CM
H65.194	Other acute nonsuppurative otitis media, recurrent, right ear	Diagnosis	ICD-10-CM
H65.195	Other acute nonsuppurative otitis media, recurrent, left ear	Diagnosis	ICD-10-CM
H65.196	Other acute nonsuppurative otitis media, recurrent, bilateral	Diagnosis	ICD-10-CM
H65.197	Other acute nonsuppurative otitis media recurrent, unspecified ear	Diagnosis	ICD-10-CM
H65.199	Other acute nonsuppurative otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.20	Chronic serous otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.21	Chronic serous otitis media, right ear	Diagnosis	ICD-10-CM
H65.22	Chronic serous otitis media, left ear	Diagnosis	ICD-10-CM
H65.23	Chronic serous otitis media, bilateral	Diagnosis	ICD-10-CM
H65.30	Chronic mucoid otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.31	Chronic mucoid otitis media, right ear	Diagnosis	ICD-10-CM
H65.32	Chronic mucoid otitis media, left ear	Diagnosis	ICD-10-CM
H65.33	Chronic mucoid otitis media, bilateral	Diagnosis	ICD-10-CM
H65.411	Chronic allergic otitis media, right ear	Diagnosis	ICD-10-CM
H65.412	Chronic allergic otitis media, left ear	Diagnosis	ICD-10-CM
H65.413	Chronic allergic otitis media, bilateral	Diagnosis	ICD-10-CM
H65.419	Chronic allergic otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.491	Other chronic nonsuppurative otitis media, right ear	Diagnosis	ICD-10-CM
H65.492	Other chronic nonsuppurative otitis media, left ear	Diagnosis	ICD-10-CM
H65.493	Other chronic nonsuppurative otitis media, bilateral	Diagnosis	ICD-10-CM
H65.499	Other chronic nonsuppurative otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.90	Unspecified nonsuppurative otitis media, unspecified ear	Diagnosis	ICD-10-CM
H65.91	Unspecified nonsuppurative otitis media, right ear	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
H65.92	Unspecified nonsuppurative otitis media, left ear	Diagnosis	ICD-10-CM
H65.93	Unspecified nonsuppurative otitis media, bilateral	Diagnosis	ICD-10-CM
H66.001	Acute suppurative otitis media without spontaneous rupture of ear drum, right ear	Diagnosis	ICD-10-CM
H66.002	Acute suppurative otitis media without spontaneous rupture of ear drum, left ear	Diagnosis	ICD-10-CM
H66.003	Acute suppurative otitis media without spontaneous rupture of ear drum, bilateral	Diagnosis	ICD-10-CM
H66.004	Acute suppurative otitis media without spontaneous rupture of ear drum, recurrent, right ear	Diagnosis	ICD-10-CM
H66.005	Acute suppurative otitis media without spontaneous rupture of ear drum, recurrent, left ear	Diagnosis	ICD-10-CM
H66.006	Acute suppurative otitis media without spontaneous rupture of ear drum, recurrent, bilateral	Diagnosis	ICD-10-CM
H66.007	Acute suppurative otitis media without spontaneous rupture of ear drum, recurrent, unspecified ear	Diagnosis	ICD-10-CM
H66.009	Acute suppurative otitis media without spontaneous rupture of ear drum, unspecified ear	Diagnosis	ICD-10-CM
H66.011	Acute suppurative otitis media with spontaneous rupture of ear drum, right ear	Diagnosis	ICD-10-CM
H66.012	Acute suppurative otitis media with spontaneous rupture of ear drum, left ear	Diagnosis	ICD-10-CM
H66.013	Acute suppurative otitis media with spontaneous rupture of ear drum, bilateral	Diagnosis	ICD-10-CM
H66.014	Acute suppurative otitis media with spontaneous rupture of ear drum, recurrent, right ear	Diagnosis	ICD-10-CM
H66.015	Acute suppurative otitis media with spontaneous rupture of ear drum, recurrent, left ear	Diagnosis	ICD-10-CM
H66.016	Acute suppurative otitis media with spontaneous rupture of ear drum, recurrent, bilateral	Diagnosis	ICD-10-CM
H66.017	Acute suppurative otitis media with spontaneous rupture of ear drum, recurrent, unspecified ear	Diagnosis	ICD-10-CM
H66.019	Acute suppurative otitis media with spontaneous rupture of ear drum, unspecified ear	Diagnosis	ICD-10-CM
H66.10	Chronic tubotympanic suppurative otitis media, unspecified	Diagnosis	ICD-10-CM
H66.11	Chronic tubotympanic suppurative otitis media, right ear	Diagnosis	ICD-10-CM
H66.12	Chronic tubotympanic suppurative otitis media, left ear	Diagnosis	ICD-10-CM
H66.13	Chronic tubotympanic suppurative otitis media, bilateral	Diagnosis	ICD-10-CM
H66.20	Chronic atticoantral suppurative otitis media, unspecified ear	Diagnosis	ICD-10-CM
H66.21	Chronic atticoantral suppurative otitis media, right ear	Diagnosis	ICD-10-CM
H66.22	Chronic atticoantral suppurative otitis media, left ear	Diagnosis	ICD-10-CM
H66.23	Chronic atticoantral suppurative otitis media, bilateral	Diagnosis	ICD-10-CM
H66.3X1	Other chronic suppurative otitis media, right ear	Diagnosis	ICD-10-CM
H66.3X2	Other chronic suppurative otitis media, left ear	Diagnosis	ICD-10-CM
H66.3X3	Other chronic suppurative otitis media, bilateral	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
H66.3X9	Other chronic suppurative otitis media, unspecified ear	Diagnosis	ICD-10-CM
H66.40	Suppurative otitis media, unspecified, unspecified ear	Diagnosis	ICD-10-CM
H66.41	Suppurative otitis media, unspecified, right ear	Diagnosis	ICD-10-CM
H66.42	Suppurative otitis media, unspecified, left ear	Diagnosis	ICD-10-CM
H66.43	Suppurative otitis media, unspecified, bilateral	Diagnosis	ICD-10-CM
H66.90	Otitis media, unspecified, unspecified ear	Diagnosis	ICD-10-CM
H66.91	Otitis media, unspecified, right ear	Diagnosis	ICD-10-CM
H66.92	Otitis media, unspecified, left ear	Diagnosis	ICD-10-CM
H66.93	Otitis media, unspecified, bilateral	Diagnosis	ICD-10-CM
H67.1	Otitis media in diseases classified elsewhere, right ear	Diagnosis	ICD-10-CM
H67.2	Otitis media in diseases classified elsewhere, left ear	Diagnosis	ICD-10-CM
H67.3	Otitis media in diseases classified elsewhere, bilateral	Diagnosis	ICD-10-CM
H67.9	Otitis media in diseases classified elsewhere, unspecified ear	Diagnosis	ICD-10-CM
H73.091	Other acute myringitis, right ear	Diagnosis	ICD-10-CM
H73.092	Other acute myringitis, left ear	Diagnosis	ICD-10-CM
H73.093	Other acute myringitis, bilateral	Diagnosis	ICD-10-CM
H73.099	Other acute myringitis, unspecified ear	Diagnosis	ICD-10-CM
H73.10	Chronic myringitis, unspecified ear	Diagnosis	ICD-10-CM
H73.11	Chronic myringitis, right ear	Diagnosis	ICD-10-CM
H73.12	Chronic myringitis, left ear	Diagnosis	ICD-10-CM
H73.13	Chronic myringitis, bilateral	Diagnosis	ICD-10-CM
Pertussis			
033.0	Whooping cough due to Bordetella pertussis (P. pertussis)	Diagnosis	ICD-9-CM
033.9	Whooping cough NOS	Diagnosis	ICD-9-CM
484.3	Pneumonia in whooping cough	Diagnosis	ICD-9-CM
A37.00	Whooping cough due to Bordetella pertussis without pneumonia	Diagnosis	ICD-10-CM
A37.01	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A37.10	Whooping cough due to Bordetella parapertussis without pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia	Diagnosis	ICD-10-CM
A37.81	Whooping cough due to oth Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.90	Whooping cough, unspecified species without pneumonia	Diagnosis	ICD-10-CM
A37.91	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
Pneumonia			
480	Viral pneumonia	Diagnosis	ICD-9-CM
480.0	Pneumonia due to adenovirus	Diagnosis	ICD-9-CM
480.1	Pneumonia due to respiratory syncytial virus	Diagnosis	ICD-9-CM
480.2	Pneumonia due to parainfluenza virus	Diagnosis	ICD-9-CM
480.3	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-9-CM
480.8	Pneumonia due to other virus not elsewhere classified	Diagnosis	ICD-9-CM
480.9	Unspecified viral pneumonia	Diagnosis	ICD-9-CM
481	Pneumococcal pneumonia (streptococcus pneumoniae pneumonia)	Diagnosis	ICD-9-CM
482	Other bacterial pneumonia	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
482.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-9-CM
482.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-9-CM
482.2	Pneumonia due to Hemophilus influenzae (H. influenzae)	Diagnosis	ICD-9-CM
482.3	Pneumonia due to Streptococcus	Diagnosis	ICD-9-CM
482.30	Pneumonia due to unspecified Streptococcus	Diagnosis	ICD-9-CM
482.31	Pneumonia due to Streptococcus, group A	Diagnosis	ICD-9-CM
482.32	Pneumonia due to Streptococcus, group B	Diagnosis	ICD-9-CM
482.39	Pneumonia due to other Streptococcus	Diagnosis	ICD-9-CM
482.4	Pneumonia due to Staphylococcus	Diagnosis	ICD-9-CM
482.40	Pneumonia due to Staphylococcus, unspecified	Diagnosis	ICD-9-CM
482.41	Methicillin susceptible pneumonia due to Staphylococcus aureus	Diagnosis	ICD-9-CM
482.42	Methicillin resistant pneumonia due to Staphylococcus aureus	Diagnosis	ICD-9-CM
482.49	Other Staphylococcus pneumonia	Diagnosis	ICD-9-CM
482.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-9-CM
482.81	Pneumonia due to anaerobes	Diagnosis	ICD-9-CM
482.82	Pneumonia due to Escherichia coli (E. coli)	Diagnosis	ICD-9-CM
482.83	Pneumonia due to other gram-negative bacteria	Diagnosis	ICD-9-CM
482.84	Legionnaires' disease	Diagnosis	ICD-9-CM
482.89	Pneumonia due to other specified bacteria	Diagnosis	ICD-9-CM
482.9	Unspecified bacterial pneumonia	Diagnosis	ICD-9-CM
483	Pneumonia due to other specified organism	Diagnosis	ICD-9-CM
483.0	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-9-CM
483.1	Pneumonia due to Chlamydia	Diagnosis	ICD-9-CM
483.8	Pneumonia due to other specified organism	Diagnosis	ICD-9-CM
484	Pneumonia in infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
484.1	Pneumonia in cytomegalic inclusion disease	Diagnosis	ICD-9-CM
484.3	Pneumonia in whooping cough	Diagnosis	ICD-9-CM
484.5	Pneumonia in anthrax	Diagnosis	ICD-9-CM
484.6	Pneumonia in aspergillosis	Diagnosis	ICD-9-CM
484.7	Pneumonia in other systemic mycoses	Diagnosis	ICD-9-CM
484.8	Pneumonia in other infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
485	Bronchopneumonia, organism unspecified	Diagnosis	ICD-9-CM
486	Pneumonia, organism unspecified	Diagnosis	ICD-9-CM
487.0	Influenza with pneumonia	Diagnosis	ICD-9-CM
A37.01	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia	Diagnosis	ICD-10-CM
A37.81	Whooping cough due to other Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.91	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
B77.81	Ascariasis pneumonia	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A 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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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
J12.81	Pneumonia due to SARS-associated coronavirus	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
J15.0	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
J15.5	Pneumonia due to Escherichia coli	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
Rubella			
056	Rubella	Diagnosis	ICD-9-CM
056.0	Rubella with neurological complications	Diagnosis	ICD-9-CM
056.00	Unspecified rubella neurological complication	Diagnosis	ICD-9-CM
056.01	Encephalomyelitis due to rubella	Diagnosis	ICD-9-CM
056.09	Other neurological rubella complications	Diagnosis	ICD-9-CM
056.7	Rubella with other specified complications	Diagnosis	ICD-9-CM
056.71	Arthritis due to rubella	Diagnosis	ICD-9-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
056.79	Rubella with other specified complications	Diagnosis	ICD-9-CM
056.8	Unspecified rubella complications	Diagnosis	ICD-9-CM
056.9	Rubella without mention of complication	Diagnosis	ICD-9-CM
647.5	Maternal rubella complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
647.50	Maternal rubella complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	Diagnosis	ICD-9-CM
647.51	Maternal rubella with delivery	Diagnosis	ICD-9-CM
647.52	Maternal rubella with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.53	Maternal rubella, antepartum	Diagnosis	ICD-9-CM
647.54	Maternal rubella complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
771.0	Congenital rubella	Diagnosis	ICD-9-CM
B06.00	Rubella with neurological complication, unspecified	Diagnosis	ICD-10-CM
B06.01	Rubella encephalitis	Diagnosis	ICD-10-CM
B06.02	Rubella meningitis	Diagnosis	ICD-10-CM
B06.09	Other neurological complications of rubella	Diagnosis	ICD-10-CM
B06.81	Rubella pneumonia	Diagnosis	ICD-10-CM
B06.82	Rubella arthritis	Diagnosis	ICD-10-CM
B06.89	Other rubella complications	Diagnosis	ICD-10-CM
B06.9	Rubella without complication	Diagnosis	ICD-10-CM
P35.0	Congenital rubella syndrome	Diagnosis	ICD-10-CM
V01.4	Contact with or exposure to rubella	Diagnosis	ICD-9-CM
Z20.4	Contact with and (suspected) exposure to rubella	Diagnosis	ICD-10-CM
Sickle Cell Disease			
282.41	Sickle-cell thalassemia without crisis	Diagnosis	ICD-9-CM
282.42	Sickle-cell thalassemia with crisis	Diagnosis	ICD-9-CM
282.60	Sickle-cell disease, unspecified	Diagnosis	ICD-9-CM
282.61	Hb-SS disease without crisis	Diagnosis	ICD-9-CM
282.62	Hb-SS disease with crisis	Diagnosis	ICD-9-CM
282.63	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-9-CM
282.64	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-9-CM
282.68	Other sickle-cell disease without crisis	Diagnosis	ICD-9-CM
282.69	Other sickle-cell disease with crisis	Diagnosis	ICD-9-CM
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
D57.1	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
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
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
D57.419	Sickle-cell thalassemia, unspecified, with crisis	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
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
Sinusitis			
461	Acute sinusitis	Diagnosis	ICD-9-CM
461.0	Acute maxillary sinusitis	Diagnosis	ICD-9-CM
461.1	Acute frontal sinusitis	Diagnosis	ICD-9-CM
461.2	Acute ethmoidal sinusitis	Diagnosis	ICD-9-CM
461.3	Acute sphenoidal sinusitis	Diagnosis	ICD-9-CM
461.8	Other acute sinusitis	Diagnosis	ICD-9-CM
461.9	Acute sinusitis, unspecified	Diagnosis	ICD-9-CM
473	Chronic sinusitis	Diagnosis	ICD-9-CM
473.0	Chronic maxillary sinusitis	Diagnosis	ICD-9-CM
473.1	Chronic frontal sinusitis	Diagnosis	ICD-9-CM
473.2	Chronic ethmoidal sinusitis	Diagnosis	ICD-9-CM
473.3	Chronic sphenoidal sinusitis	Diagnosis	ICD-9-CM
473.8	Other chronic sinusitis	Diagnosis	ICD-9-CM
473.9	Unspecified sinusitis (chronic)	Diagnosis	ICD-9-CM
J01.00	Acute maxillary sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.01	Acute recurrent maxillary 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
J01.20	Acute ethmoidal sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.21	Acute recurrent ethmoidal 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
J01.40	Acute pansinusitis, unspecified	Diagnosis	ICD-10-CM
J01.41	Acute recurrent pansinusitis	Diagnosis	ICD-10-CM
J01.80	Other acute sinusitis	Diagnosis	ICD-10-CM
J01.81	Other acute recurrent sinusitis	Diagnosis	ICD-10-CM
J01.90	Acute sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.91	Acute recurrent sinusitis, unspecified	Diagnosis	ICD-10-CM
J32.0	Chronic maxillary sinusitis	Diagnosis	ICD-10-CM
J32.1	Chronic frontal sinusitis	Diagnosis	ICD-10-CM
J32.2	Chronic ethmoidal sinusitis	Diagnosis	ICD-10-CM
J32.3	Chronic sphenoidal sinusitis	Diagnosis	ICD-10-CM
J32.4	Chronic pansinusitis	Diagnosis	ICD-10-CM
J32.8	Other chronic sinusitis	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
J32.9	Chronic sinusitis, unspecified	Diagnosis	ICD-10-CM
Necrotizing Enterocolitis			
777.5	Necrotizing enterocolitis in newborn	Diagnosis	ICD-9-CM
777.50	Necrotizing enterocolitis in newborn, unspecified	Diagnosis	ICD-9-CM
777.51	Stage I necrotizing enterocolitis in newborn	Diagnosis	ICD-9-CM
777.52	Stage II necrotizing enterocolitis in newborn	Diagnosis	ICD-9-CM
777.53	Stage III necrotizing enterocolitis in newborn	Diagnosis	ICD-9-CM
P77.1	Stage 1 necrotizing enterocolitis in newborn	Diagnosis	ICD-10-CM
P77.2	Stage 2 necrotizing enterocolitis in newborn	Diagnosis	ICD-10-CM
P77.3	Stage 3 necrotizing enterocolitis in newborn	Diagnosis	ICD-10-CM
P77.9	Necrotizing enterocolitis in newborn, unspecified	Diagnosis	ICD-10-CM
Retinopathy of Prematurity			
362.20	Retinopathy of prematurity, unspecified	Diagnosis	ICD-9-CM
362.21	Retrolental fibroplasia	Diagnosis	ICD-9-CM
362.22	Retinopathy of prematurity, stage 0	Diagnosis	ICD-9-CM
362.23	Retinopathy of prematurity, stage 1	Diagnosis	ICD-9-CM
362.24	Retinopathy of prematurity, stage 2	Diagnosis	ICD-9-CM
362.25	Retinopathy of prematurity, stage 3	Diagnosis	ICD-9-CM
362.26	Retinopathy of prematurity, stage 4	Diagnosis	ICD-9-CM
362.27	Retinopathy of prematurity, stage 5	Diagnosis	ICD-9-CM
H35.1	Retinopathy of prematurity	Diagnosis	ICD-10-CM
H35.10	Retinopathy of prematurity, unspecified	Diagnosis	ICD-10-CM
H35.101	Retinopathy of prematurity, unspecified, right eye	Diagnosis	ICD-10-CM
H35.102	Retinopathy of prematurity, unspecified, left eye	Diagnosis	ICD-10-CM
H35.103	Retinopathy of prematurity, unspecified, bilateral	Diagnosis	ICD-10-CM
H35.109	Retinopathy of prematurity, unspecified, unspecified eye	Diagnosis	ICD-10-CM
H35.11	Retinopathy of prematurity, stage 0	Diagnosis	ICD-10-CM
H35.111	Retinopathy of prematurity, stage 0, right eye	Diagnosis	ICD-10-CM
H35.112	Retinopathy of prematurity, stage 0, left eye	Diagnosis	ICD-10-CM
H35.113	Retinopathy of prematurity, stage 0, bilateral	Diagnosis	ICD-10-CM
H35.119	Retinopathy of prematurity, stage 0, unspecified eye	Diagnosis	ICD-10-CM
H35.12	Retinopathy of prematurity, stage 1	Diagnosis	ICD-10-CM
H35.121	Retinopathy of prematurity, stage 1, right eye	Diagnosis	ICD-10-CM
H35.122	Retinopathy of prematurity, stage 1, left eye	Diagnosis	ICD-10-CM
H35.123	Retinopathy of prematurity, stage 1, bilateral	Diagnosis	ICD-10-CM
H35.129	Retinopathy of prematurity, stage 1, unspecified eye	Diagnosis	ICD-10-CM
H35.13	Retinopathy of prematurity, stage 2	Diagnosis	ICD-10-CM
H35.131	Retinopathy of prematurity, stage 2, right eye	Diagnosis	ICD-10-CM
H35.132	Retinopathy of prematurity, stage 2, left eye	Diagnosis	ICD-10-CM
H35.133	Retinopathy of prematurity, stage 2, bilateral	Diagnosis	ICD-10-CM
H35.139	Retinopathy of prematurity, stage 2, unspecified eye	Diagnosis	ICD-10-CM
H35.14	Retinopathy of prematurity, stage 3	Diagnosis	ICD-10-CM

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and CDC Vaccine Administered (CVX) Codes Used to Define Characteristics in this Request

Code	Description	Code Category	Code Type
H35.141	Retinopathy of prematurity, stage 3, right eye	Diagnosis	ICD-10-CM
H35.142	Retinopathy of prematurity, stage 3, left eye	Diagnosis	ICD-10-CM
H35.143	Retinopathy of prematurity, stage 3, bilateral	Diagnosis	ICD-10-CM
H35.149	Retinopathy of prematurity, stage 3, unspecified eye	Diagnosis	ICD-10-CM
H35.15	Retinopathy of prematurity, stage 4	Diagnosis	ICD-10-CM
H35.151	Retinopathy of prematurity, stage 4, right eye	Diagnosis	ICD-10-CM
H35.152	Retinopathy of prematurity, stage 4, left eye	Diagnosis	ICD-10-CM
H35.153	Retinopathy of prematurity, stage 4, bilateral	Diagnosis	ICD-10-CM
H35.159	Retinopathy of prematurity, stage 4, unspecified eye	Diagnosis	ICD-10-CM
H35.16	Retinopathy of prematurity, stage 5	Diagnosis	ICD-10-CM
H35.161	Retinopathy of prematurity, stage 5, right eye	Diagnosis	ICD-10-CM
H35.162	Retinopathy of prematurity, stage 5, left eye	Diagnosis	ICD-10-CM
H35.163	Retinopathy of prematurity, stage 5, bilateral	Diagnosis	ICD-10-CM
H35.169	Retinopathy of prematurity, stage 5, unspecified eye	Diagnosis	ICD-10-CM
Bronchopulmonary Dysplasia			
770.7	Chronic respiratory disease arising in the perinatal period	Diagnosis	ICD-9-CM
P27.1	Bronchopulmonary dysplasia originating in the perinatal period	Diagnosis	ICD-10-CM
Neonatal Sepsis			
771.81	Septicemia (sepsis) of newborn	Diagnosis	ICD-9-CM
P36	Bacterial sepsis of newborn	Diagnosis	ICD-10-CM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
Coronavirus Vaccine	
COVID-19 vac mRNA,tris(Pfizer)/PF	Comirnaty tris Vaccine(PF)
COVID-19 vac mRNA,tris(Pfizer)/PF	Pfizer COVID-19 tris Vaccn(PF)
COVID-19 vac mRNA,tris(Pfizer)/PF	Pfizer-BioNTech Covid-19 Vaccine
COVID-19 vac, Ad26.COVS.2.S (Janssen)/PF	Janssen COVID-19 Vaccine (EUA)
COVID-19 vaccine mRNA,Original,Omicron BA.4/5(Moderna)/PF	Moderna COVID Bival(6m up)(PF)
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(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, bivalent, mRNA/preservative free	Moderna COVID Biv Boost(UNAP)
COVID-19 vaccine, mRNA, BNT162b2, LNP-S (Pfizer)/PF	Comirnaty (PF)
COVID-19 vaccine, mRNA, BNT162b2, LNP-S (Pfizer)/PF	Pfizer COVID-19 Vaccine (EUA)
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, 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, mRNA, cx-024414, LNP-S (Moderna)/PF	Spikevax (PF)
COVID-19 vaccine, recombinant (Novavax)/adjuvant-Matrix/PF	Novavax COVID-19 Vacc,Adj(EUA)
Antibiotics	
alatrofloxacin mesylate	Trovan
amikacin sulfate	Amikin
amikacin sulfate	amikacin
amikacin sulfate in 0.9 % sodium chloride	amikacin in 0.9 % sod chloride
amikacin sulfate liposomal with nebulizer accessories	Arikayce
amikacin sulfate/PF	amikacin (PF)
amoxicillin	Amoxil
amoxicillin	DisperMox
amoxicillin	Moxatag
amoxicillin	Senox
amoxicillin	Trimox
amoxicillin	Trimox 125
amoxicillin	Trimox 250
amoxicillin	Wymox
amoxicillin	amoxicillin
amoxicillin/potassium clavulanate	Augmentin
amoxicillin/potassium clavulanate	Augmentin ES-600
amoxicillin/potassium clavulanate	Augmentin XR
amoxicillin/potassium clavulanate	amoxicillin-pot clavulanate
ampicillin sodium	Omnipen-N
ampicillin sodium	Totacillin-N
ampicillin sodium	ampicillin sodium
ampicillin sodium/sulbactam sodium	Unasyn
ampicillin sodium/sulbactam sodium	ampicillin-sulbactam
ampicillin trihydrate	Amficot
ampicillin trihydrate	Marcillin
ampicillin trihydrate	Principen

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ampicillin trihydrate	Totacillin
ampicillin trihydrate	ampicillin
azithromycin	Azasite
azithromycin	Zithromax
azithromycin	Zithromax TRI-PAK
azithromycin	Zithromax Z-Pak
azithromycin	Zmax
azithromycin	Zmax Pediatric
azithromycin	azithromycin
azithromycin hydrogen citrate	azithromycin hydrogen citrate
azithromycin/chondroitin sulfate A sodium/PF	Klarity-A (azithro-chondr)(PF)
aztreonam	Azactam
aztreonam	aztreonam
aztreonam lysine	Cayston
aztreonam/dextrose-water	Azactam in dextrose (iso-osm)
bacampicillin HCl	Spectrobid
bacitracin	AK-Tracin
bacitracin	BACiiM
bacitracin	Baciguent
bacitracin	Bacticin
bacitracin	bacitracin
bacitracin zinc	Antibiotic (bacitracin zinc)
bacitracin zinc/polymyxin B sulfate	Betadine Antibiotic/Moisturize
bacitracin zinc/polymyxin B sulfate	Double Antibiotic (b.tracn Zn)
bacitracin/polymyxin B sulfate	Double Antibiotic
bacitracin/polymyxin B sulfate	Multi-Antibiotic
bacitracin/polymyxin B sulfate/lidocaine	Campho-Phenique Antibiotic
bedaquiline fumarate	Sirturo
besifloxacin HCl	Besivance
bismuth subsalicylate/metronidazole/tetracycline HCl	Helidac
bleomycin sulfate	Blenoxane
bleomycin sulfate	Bleo 15K
bleomycin sulfate	bleomycin
brimonidine tartrate/ivermectin/metronidazole/niacinamide	Dazaveidaoxia
capreomycin sulfate	Capastat
carbenicillin indanyl sodium	Geocillin
cefaclor	Ceclor
cefaclor	Ceclor CD
cefaclor	Raniclor
cefaclor	cefaclor
cefadroxil	Duricef
cefadroxil	cefadroxil
cefamandole nafate	Mandol
cefamandole nafate/dextrose 5 % in water	Mandol/D5W
cefazolin sodium	Ancef
cefazolin sodium	Kefzol
cefazolin sodium	cefazolin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
cefazolin sodium in 0.9 % sodium chloride	cefazolin in 0.9% sod chloride
cefazolin sodium/dextrose 5 % in water	cefazolin in dextrose 5 %
cefazolin sodium/dextrose, iso-osmotic	Ancef in dextrose (iso-osm)
cefazolin sodium/dextrose, iso-osmotic	cefazolin in dextrose (iso-os)
cefazolin sodium/water for injection,sterile	cefazolin in sterile water
cefdinir	Omnicef
cefdinir	cefdinir
cefditoren pivoxil	Spectracef
cefditoren pivoxil	cefditoren pivoxil
cefepime HCl	Maxipime
cefepime HCl	cefepime
cefepime HCl in dextrose 5 % in water	cefepime in dextrose 5 %
cefepime HCl in iso-osmotic dextrose	cefepime in dextrose,iso-osm
cefiderocol sulfate tosylate	Fetroja
cefixime	Suprax
cefixime	cefixime
cefonicid sodium	Monocid
cefoperazone sodium	Cefobid
cefoperazone sodium/dextrose 2.4 %-water	Cefobid in dextrose
cefotaxime sodium	Claforan
cefotaxime sodium	cefotaxime
cefotaxime sodium/dextrose, iso-osmotic	Claforan in dextrose(iso-osm)
cefotetan disodium	Cefotan
cefotetan disodium	cefotetan
cefotetan disodium in iso-osmotic dextrose	cefotetan in dextrose, iso-osm
cefotetan in dextrose	Cefotan in dextrose
cefoxitin sodium	Mefoxin
cefoxitin sodium	cefoxitin
cefoxitin sodium/dextrose 5 % in water	Mefoxin in dextrose (iso-osm)
cefoxitin sodium/dextrose, iso-osmotic	cefoxitin in dextrose, iso-osm
cefpodoxime proxetil	Vantin
cefpodoxime proxetil	cefpodoxime
cefprozil	Cefzil
cefprozil	cefprozil
ceftaroline fosamil acetate	Teflaro
ceftazidime	Fortaz
ceftazidime	Tazicef
ceftazidime	Tazidime
ceftazidime	ceftazidime
ceftazidime in dextrose 5% and water	ceftazidime in D5W
ceftazidime in dextrose, iso-osmotic	Tazicef in dextrose
ceftazidime sodium	ceftazidime
ceftazidime sodium in iso-osmotic dextrose	Fortaz in dextrose 5 %
ceftazidime/arginine	Ceptaz
ceftazidime/avibactam sodium	Avycaz
ceftibuten	Cedax
ceftibuten	ceftibuten

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ceftizoxime sodium	Cefizox
ceftizoxime sodium/dextrose, iso-osmotic	Cefizox in dextrose (iso-osm)
ceftolozane sulfate/tazobactam sodium	Zerbaxa
ceftriaxone sodium	Rocephin
ceftriaxone sodium	ceftriaxone
ceftriaxone sodium in iso-osmotic dextrose	Rocephin in dextrose (iso-osm)
ceftriaxone sodium in iso-osmotic dextrose	ceftriaxone in dextrose,iso-os
ceftriaxone sodium/lidocaine HCl	Rocephin IM Convenience
cefuroxime axetil	Ceftin
cefuroxime axetil	cefuroxime axetil
cefuroxime sodium	Kefurox
cefuroxime sodium	Zinacef
cefuroxime sodium	cefuroxime sodium
cefuroxime sodium in 0.9 % sodium chloride/PF	cefuroxime (PF) in 0.9% NaCl
cefuroxime sodium/dextrose, iso-osmotic	Zinacef in dextrose (iso-osm)
cefuroxime sodium/dextrose, iso-osmotic	cefuroxime-dextrose (iso-osm)
cefuroxime sodium/water for injection,sterile	Zinacef in Sterile Water
cephalexin	Daxbia
cephalexin	ED A-Ceph
cephalexin	Keflex
cephalexin	Panixine DisperDose
cephalexin	cephalexin
cephalexin HCl	Keftab
cephalothin sodium/dextrose 5 % in water	cephalothin in dextrose 5 %
cephapirin sodium	Cefadyl
cephradine	Velosef
cephradine	cephradine
chloramphenicol	AK-Chlor
chloramphenicol	Chloromycetin
chloramphenicol	Chloroptic
chloramphenicol	Chloroptic S.O.P.
chloramphenicol	chloramphenicol
chloramphenicol sod succinate	Chloromycetin
chloramphenicol sod succinate	chloramphenicol sod succinate
cinoxacin	Cinobac
ciprofloxacin	Cipro
ciprofloxacin	ciprofloxacin
ciprofloxacin HCl	Ciloxan
ciprofloxacin HCl	Cipro
ciprofloxacin HCl	Cipro Cystitis
ciprofloxacin HCl	ProQuin XR
ciprofloxacin HCl	ciprofloxacin HCl
ciprofloxacin lactate	Cipro I.V.
ciprofloxacin lactate	ciprofloxacin lactate
ciprofloxacin lactate/dextrose 5 % in water	Cipro in D5W
ciprofloxacin lactate/dextrose 5 % in water	ciprofloxacin in 5 % dextrose
ciprofloxacin/ciprofloxacin HCl	Cipro XR

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ciprofloxacin/ciprofloxacin HCl	ciprofloxacin (mixture)
clarithromycin	Biaxin
clarithromycin	Biaxin XL
clarithromycin	Biaxin XL Pak
clarithromycin	clarithromycin
clindamycin HCl	Cleocin HCl
clindamycin HCl	clindamycin HCl
clindamycin palmitate HCl	Cleocin Pediatric
clindamycin palmitate HCl	Clindamycin Pediatric
clindamycin palmitate HCl	clindamycin palmitate HCl
clindamycin phosphate	Cleocin
clindamycin phosphate	Clin Single Use
clindamycin phosphate	clindamycin phosphate
clindamycin phosphate in 0.9 % sodium chloride	clindamycin in 0.9 % sod chlor
clindamycin phosphate/dextrose 5 % in water	Cleocin in 5 % dextrose
clindamycin phosphate/dextrose 5 % in water	clindamycin in 5 % dextrose
cloxacillin sodium	cloxacillin
colistin (as colistimethate sodium)	Coly-Mycin M
colistin (as colistimethate sodium)	Coly-Mycin M Parenteral
colistin (as colistimethate sodium)	colistin (colistimethate Na)
colloidal bismuth subcitrate/metronidazole/tetracycline HCl	Pylera
dactinomycin	Cosmegen
dactinomycin	dactinomycin
dalbavancin HCl	Dalvance
daptomycin	Cubicin
daptomycin	Cubicin RF
daptomycin	daptomycin
daunorubicin HCl	Cerubidine
daunorubicin HCl	daunorubicin
daunorubicin citrate liposomal	DaunoXome
daunorubicin/cytarabine liposomal	Vyxeos
delafloxacin meglumine	Baxdela
demeclocycline HCl	Declomycin
demeclocycline HCl	demeclocycline
dicloxacillin sodium	Dynapen
dicloxacillin sodium	dicloxacillin
dirithromycin	Dynabac
dirithromycin	Dynabac D5-Pak
doripenem	Doribax
doripenem	doripenem
doxorubicin HCl	Adriamycin
doxorubicin HCl	Adriamycin PFS
doxorubicin HCl	Adriamycin RDF
doxorubicin HCl	Rubex
doxorubicin HCl	doxorubicin
doxorubicin HCl pegylated liposomal	Doxil
doxorubicin HCl pegylated liposomal	Lipodox

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
doxorubicin HCl pegylated liposomal	Lipodox 50
doxorubicin HCl pegylated liposomal	doxorubicin, peg-liposomal
doxycycline calcium	Vibramycin (calcium)
doxycycline hyclate	Acticlate
doxycycline hyclate	Bio-Tab
doxycycline hyclate	Doryx
doxycycline hyclate	Doryx MPC
doxycycline hyclate	Doxy-100
doxycycline hyclate	Doxy-Caps
doxycycline hyclate	Doxy-Lemmon
doxycycline hyclate	LymePak
doxycycline hyclate	Morgidox
doxycycline hyclate	Soloxide
doxycycline hyclate	Targadox
doxycycline hyclate	Vibra-Tabs
doxycycline hyclate	Vibramycin
doxycycline hyclate	doxycycline hyclate
doxycycline monohydrate	Adoxa
doxycycline monohydrate	Adoxa Pak
doxycycline monohydrate	Avidoxy
doxycycline monohydrate	Mondoxyne NL
doxycycline monohydrate	Monodox
doxycycline monohydrate	Okebo
doxycycline monohydrate	Oracea
doxycycline monohydrate	Vibramycin (mono)
doxycycline monohydrate	doxycycline monohydrate
doxycycline monohydrate/omega-3 combination no.1/Eye Mask	Nutridox
doxycycline monohydrate/skin cleanser combination no.9	Adoxa CK
doxycycline monohydrate/skin cleanser combination no.9	Adoxa TT
enoxacin	Penetrex
epirubicin HCl	Ellence
epirubicin HCl	epirubicin
eravacycline di-hydrochloride	Xerava
ertapenem sodium	Invanz
ertapenem sodium	ertapenem
erythromycin base	E-Mycin
erythromycin base	Ery-Tab
erythromycin base	Eryc
erythromycin base	Ilotycin
erythromycin base	PCE
erythromycin base	Romycin
erythromycin base	erythromycin
erythromycin estolate	Ilosone
erythromycin estolate	erythromycin estolate
erythromycin ethylsuccinate	E.E.S. 200
erythromycin ethylsuccinate	E.E.S. 400
erythromycin ethylsuccinate	E.E.S. Granules

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
erythromycin ethylsuccinate	EryPed
erythromycin ethylsuccinate	EryPed 200
erythromycin ethylsuccinate	EryPed 400
erythromycin ethylsuccinate	erythromycin ethylsuccinate
erythromycin ethylsuccinate/sulfisoxazole acetyl	Erythro-Sul Ped
erythromycin ethylsuccinate/sulfisoxazole acetyl	Eryzole
erythromycin ethylsuccinate/sulfisoxazole acetyl	Pediagen
erythromycin ethylsuccinate/sulfisoxazole acetyl	Pediazole
erythromycin ethylsuccinate/sulfisoxazole acetyl	erythromycin-sulfisoxazole
erythromycin lactobionate	Erythrocin
erythromycin lactobionate	erythromycin lactobionate
erythromycin stearate	Erythrocin (as stearate)
erythromycin stearate	Erythrocot
erythromycin stearate	My-E
erythromycin stearate	erythromycin stearate
fidaxomicin	Dificid
gatifloxacin	Tequin
gatifloxacin	Zymar
gatifloxacin	Zymaxid
gatifloxacin	gatifloxacin
gatifloxacin/dextrose 5 % in water	Tequin in dextrose 5 %
gemifloxacin mesylate	Factive
gentuzumab ozogamicin	Mylotarg
gentamicin sulfate	Garamycin
gentamicin sulfate	Genoptic
gentamicin sulfate	Genoptic S.O.P.
gentamicin sulfate	Gentacidin
gentamicin sulfate	Gentafair
gentamicin sulfate	Gentak
gentamicin sulfate	Gentasol
gentamicin sulfate	gentamicin
gentamicin sulfate in sodium chloride, iso-osmotic	gentamicin in NaCl (iso-osm)
gentamicin sulfate/PF	gentamicin sulfate (PF)
gentamicin sulfate/PF	gentamicin sulfate (ped) (PF)
gentamicin sulfate/sodium chloride	gentamicin in 0.9 % sodium chl
gentamicin sulfate/sodium citrate	gentamicin-sodium citrate
grepafloxacin HCl	Raxar
idarubicin HCl	Idamycin
idarubicin HCl	Idamycin PFS
idarubicin HCl	idarubicin
imipenem/cilastatin sodium	Primaxin IM
imipenem/cilastatin sodium	Primaxin IV
imipenem/cilastatin sodium	imipenem-cilastatin
imipenem/cilastatin sodium/relebactam	Recarbrio
inotuzumab ozogamicin	Besponsa
ivermectin/metronidazole	Aveida
ivermectin/metronidazole/niacinamide	Aveidaoxia

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ivermectin/metronidazole/niacinamide	ivermectin-metronidazol-niacin
kanamycin sulfate	Kantrex
kanamycin sulfate	kanamycin
lansoprazole/amoxicillin trihydrate/clarithromycin	Prevpac
lansoprazole/amoxicillin trihydrate/clarithromycin	amoxicil-clarithromy-lansopraz
lefamulin acetate	Xenleta
levofloxacin	Iquix
levofloxacin	Levaquin
levofloxacin	Levaquin Leva-Pak
levofloxacin	Quixin
levofloxacin	levofloxacin
levofloxacin/dextrose 5 % in water	Levaquin in 5 % dextrose
levofloxacin/dextrose 5 % in water	levofloxacin in D5W
lincomycin HCl	Lincocin
lincomycin HCl	Lincoject
lincomycin HCl	lincomycin
linezolid	Zyvox
linezolid	linezolid
linezolid in 0.9 % sodium chloride	linezolid-0.9% sodium chloride
linezolid in dextrose 5 % in water	Zyvox
linezolid in dextrose 5 % in water	linezolid in dextrose 5%
lomefloxacin HCl	Maxaquin
loracarbef	Lorabid
meropenem	Merrem
meropenem	meropenem
meropenem in 0.9 % sodium chloride	meropenem-0.9% sodium chloride
meropenem/vaborbactam	Vabomere
metronidazole	Flagyl
metronidazole	Flagyl ER
metronidazole	MetroCream
metronidazole	MetroLotion
metronidazole	Metrogel
metronidazole	Metryl
metronidazole	Noritrate
metronidazole	Nydamax
metronidazole	Rosadan
metronidazole	Rozex
metronidazole	Vitazol
metronidazole	metronidazole
metronidazole HCl	Flagyl (as HCl)
metronidazole in sodium chloride	Flagyl RTU
metronidazole in sodium chloride	Metro I.V.
metronidazole in sodium chloride	metronidazole in NaCl (iso-os)
metronidazole/mupirocin	Idaran
metronidazole/niacinamide	Idaoxia
metronidazole/skin cleanser	Metrogel Kit
metronidazole/skin cleanser combination no.23	Rosadan

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
mezlocillin sodium	Mezlin
minocycline HCl	CoreMino
minocycline HCl	Dynacin
minocycline HCl	Minocin
minocycline HCl	Minolira ER
minocycline HCl	Solodyn
minocycline HCl	Vectrin
minocycline HCl	Ximino
minocycline HCl	minocycline
mitomycin	Jelmyto
mitomycin	Mutamycin
mitomycin	mitomycin
mitoxantrone HCl	Novantrone
mitoxantrone HCl	mitoxantrone
moxifloxacin HCl	Avelox
moxifloxacin HCl	Avelox ABC Pack
moxifloxacin HCl	Moxeza
moxifloxacin HCl	Vigamox
moxifloxacin HCl	moxifloxacin
moxifloxacin HCl in balanced salt solution no.2/PF	moxifloxacin (PF)-BSS
moxifloxacin HCl in sodium acetate and sulfate,water,iso-osm	moxifloxacin-sod.ace,sul-water
moxifloxacin HCl in sodium chloride, iso-osmotic	Avelox in NaCl (iso-osmotic)
moxifloxacin HCl in sodium chloride, iso-osmotic	moxifloxacin-sod.chloride(iso)
moxifloxacin HCl in sodium chloride,iso-osmotic/PF	moxifloxacin-sod chlor,iso(PF)
mupirocin calcium	Bactroban Nasal
nafcillin in dextrose, iso-osmotic	nafcillin in dextrose iso-osm
nafcillin sodium	Nallpen
nafcillin sodium	Unipen
nafcillin sodium	nafcillin
nalidixic acid	NegGram
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Antibiotic-Pain Relief (bacit)
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	First Aid Antibiotic-Pain Rlf
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	First Aid Ointment w/pramoxin
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Neosporin Plus
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Neosporin Plus PainRelief(bac)
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Neosporin-Pain Itch Scar
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Tri-Biozene
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Triple Antibiotic (pram) Extra
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Triple Antibiotic Max St
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Triple Antibiotic Plus
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Triple Antibiotic-Pain Relief
neomycin sulf/bacitracin zinc/polymyxin B sulf/pramoxine HCl	Triple Antibiotic-Pramoxine
neomycin sulf/colistin sul/hydrocortisone ac/thonzonium brom	Coly-Mycin S
neomycin sulf/colistin sul/hydrocortisone ac/thonzonium brom	Cortisporin-TC
neomycin sulfate	Neo-Fradin
neomycin sulfate	neomycin
neomycin sulfate/bacitracin zinc/polymyxin B	Alba-3

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
neomycin sulfate/bacitracin zinc/polymyxin B	Antibiotic (neomy-bacit-polym)
neomycin sulfate/bacitracin zinc/polymyxin B	First Aid Antibiotic
neomycin sulfate/bacitracin zinc/polymyxin B	Neoporacin
neomycin sulfate/bacitracin zinc/polymyxin B	Neosporin (neo-bac-polym)
neomycin sulfate/bacitracin zinc/polymyxin B	Tribiotic
neomycin sulfate/bacitracin zinc/polymyxin B	Triple Antibiotic
neomycin sulfate/bacitracin zinc/polymyxin B	Trisporic
neomycin sulfate/bacitracin zinc/polymyxin B	neomycin-bacitracinZn-polymyxinB
neomycin sulfate/bacitracin zinc/polymyxin B sulfate	Triple Antibiotic Spray
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	AK-Spore HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Antibiotic HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Cortisporin
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Cortomycin
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Neo-Poly-Bac-HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Neo-Polycin HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Triple Antibiotic-HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	neomycin-bacitracin-poly-HC
neomycin sulfate/bacitracin zinc/polymyxin B/lidocaine HCl	ProCoMycin
neomycin sulfate/bacitracin/polymyxin B	Neo-Polycin
neomycin sulfate/bacitracin/polymyxin B	Neocidin
neomycin sulfate/bacitracin/polymyxin B	Neoptic
neomycin sulfate/bacitracin/polymyxin B	Neosporin (neo-bac-polym)
neomycin sulfate/bacitracin/polymyxin B	Ocutricin
neomycin sulfate/bacitracin/polymyxin B	Triple Antibiotic (eye)
neomycin sulfate/bacitracin/polymyxin B	Triple Antibiotic(bactitracin)
neomycin sulfate/bacitracin/polymyxin B	neomycin-bacitracin-polymyxin
neomycin sulfate/bacitracin/polymyxin B/diperodon	Campho-Phenique Max Antibiotic
neomycin sulfate/bacitracin/polymyxin B/diperodon	Tribiotic Plus
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Lanabiotic
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Neosporin Plus
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Neosporin Plus Max St
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Spectrocin Plus
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Triple Antibiotic Extra
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Triple Antibiotic Plus
neomycin sulfate/bacitracin/polymyxin B/lidocaine	Triple Antibiotic-Lidocaine
neomycin sulfate/bacitracin/polymyxin B/pramoxine	Antibiotic
neomycin sulfate/bacitracin/polymyxin B/pramoxine	Triple Antibiotic Plus
neomycin sulfate/bacitracin/polymyxin B/pramoxine	Triple Antibiotic-Pramoxine
neomycin sulfate/colistin sulfate/hydrocortisone	Coly-Mycin S
neomycin sulfate/dexamethasone sodium phosphate	AK-Neo-Dex
neomycin sulfate/dexamethasone sodium phosphate	Neo-Decadron
neomycin sulfate/dexamethasone sodium phosphate	Neo-Dex
neomycin sulfate/dexamethasone sodium phosphate	Neo-Dexair
neomycin sulfate/dexamethasone sodium phosphate	neomycin-dexamethasone
neomycin sulfate/fluocinolone acetoneide	Neo-Synalar
neomycin sulfate/fluocinolone acetoneide/emollient comb no.65	Neo-Synalar Kit
neomycin sulfate/hydrocortisone	neomycin-hydrocortisone

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
neomycin sulfate/polymyxin B sulfate	Antibiotic
neomycin sulfate/polymyxin B sulfate	Multi-Antibiotic
neomycin sulfate/polymyxin B sulfate	Neosporin GU Irrigant
neomycin sulfate/polymyxin B sulfate	neomycin-polymyxin B GU
neomycin sulfate/polymyxin B sulfate/buffers/hydrocortisone	Pediotic
neomycin sulfate/polymyxin B sulfate/gramicidin D	AK-Spore
neomycin sulfate/polymyxin B sulfate/gramicidin D	Alba-3
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neocidin
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neocin
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neocin-PG
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neopolygram
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neoptic
neomycin sulfate/polymyxin B sulfate/gramicidin D	Neosporin (neo-polym-gramicid)
neomycin sulfate/polymyxin B sulfate/gramicidin D	Ocutricin
neomycin sulfate/polymyxin B sulfate/gramicidin D	P.N.
neomycin sulfate/polymyxin B sulfate/gramicidin D	Triple Antibiotic (gramicidin)
neomycin sulfate/polymyxin B sulfate/gramicidin D	neomycin-polymyxin-gramicidin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	AK-Spore HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic Ear
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic Otic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Aurobiotic-HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Bio-Cot
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cort-Biotic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortatrigen
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortisporin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortomycin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Lazersporin-C
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Octigen
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Oticin HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Otocrin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Otocort
neomycin sulfate/polymyxin B sulfate/hydrocortisone	UAD Otic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	neomycin-polymyxin-HC
neomycin sulfate/polymyxin B sulfate/lidocaine	Antibiotic Cream
neomycin sulfate/polymyxin B sulfate/lidocaine	Antibiotic Cream Plus
neomycin sulfate/polymyxin B sulfate/lidocaine	Antibiotic Cream W/Lidocaine
neomycin sulfate/polymyxin B sulfate/lidocaine	Antibiotic Plus
neomycin sulfate/polymyxin B sulfate/lidocaine	Antibiotic-Lidocaine
neomycin sulfate/polymyxin B sulfate/lidocaine	Neosporin Plus
neomycin sulfate/polymyxin B sulfate/pramoxine	Antibiotic Plus (pramoxine)
neomycin sulfate/polymyxin B sulfate/pramoxine	Antibiotic Plus Pain Rel(pram)
neomycin sulfate/polymyxin B sulfate/pramoxine	Antibiotic-Pramoxine
neomycin sulfate/polymyxin B sulfate/pramoxine	Double Antibiotic-Pain Relief
neomycin sulfate/polymyxin B sulfate/pramoxine	First Aid ABX Pain Relief
neomycin sulfate/polymyxin B sulfate/pramoxine	Multi Antibiotic Plus
neomycin sulfate/polymyxin B sulfate/pramoxine	Neosporin Plus

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
neomycin sulfate/polymyxin B sulfate/pramoxine	Neosporin Plus Pain Relief
neomycin sulfate/polymyxin B sulfate/prednisolone	Poly-Pred
neomycin/bacitracin/polymyxin B/hydrocortisone	Cortisporin
neomycin/polymyxin B sulfate/dexamethasone	AK-Trol
neomycin/polymyxin B sulfate/dexamethasone	Dexacidin
neomycin/polymyxin B sulfate/dexamethasone	Dexacine
neomycin/polymyxin B sulfate/dexamethasone	Dexasporin
neomycin/polymyxin B sulfate/dexamethasone	Maxitrol
neomycin/polymyxin B sulfate/dexamethasone	Methadex
neomycin/polymyxin B sulfate/dexamethasone	Neo Poly Dex
neomycin/polymyxin B sulfate/dexamethasone	Poly-Dex
neomycin/polymyxin B sulfate/dexamethasone	W-Dnp
neomycin/polymyxin B sulfate/dexamethasone	neomycin-polymyxin B-dexameth
netilmicin sulfate	Netromycin
nitrofurantoin	Furadantin
nitrofurantoin	nitrofurantoin
nitrofurantoin macrocrystal	Macrodantin
nitrofurantoin macrocrystal	nitrofurantoin macrocrystal
nitrofurantoin monohydrate/macrocrystals	Macrobid
nitrofurantoin monohydrate/macrocrystals	nitrofurantoin monohyd/m-cryst
norfloxacin	Chibroxin
norfloxacin	Noroxin
ofloxacin	Floxin
ofloxacin	Ocuflox
ofloxacin	ofloxacin
ofloxacin/dextrose 5 % in water	Floxin I.V. in D5W
omadacycline tosylate	Nuzyra
omadacycline tosylate	Nuzyra (7 Day with Load Dose)
omadacycline tosylate	Nuzyra (7 Day)
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak
oritavancin diphosphate	Kimymrsa
oritavancin diphosphate	Orbactiv
oxacillin sodium	Bactocill
oxacillin sodium	oxacillin
oxacillin sodium in iso-osmotic dextrose	oxacillin in dextrose(iso-osm)
oxytetracycline HCl	Terramycin
oxytetracycline HCl/sulfamethizole/phenazopyridine	Urobiotic
oxytetracycline/lidocaine	Terramycin (with lidocaine)
penicillin G benzathine	Bicillin L-A
penicillin G benzathine	Permapen
penicillin G benzathine	penicillin G benzathine
penicillin G benzathine/penicillin G procaine	Bicillin C-R
penicillin G potassium	Pfizerpen-G
penicillin G potassium	penicillin G potassium
penicillin G potassium in 0.9 % sodium chloride	penicillin G pot-0.9% sodchlor
penicillin G potassium/dextrose-water	penicillin G pot in dextrose

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
penicillin G procaine	Wycillin
penicillin G procaine	penicillin G procaine
penicillin G sodium	penicillin G sodium
penicillin V potassium	Beepen VK
penicillin V potassium	Beepen-VK
penicillin V potassium	Pen-Vee K
penicillin V potassium	Veetids
penicillin V potassium	Veetids 250
penicillin V potassium	penicillin V potassium
piperacillin and tazobactam in dextrose, iso-osmotic	Zosyn in dextrose (iso-osm)
piperacillin sodium	Pipracil
piperacillin sodium	piperacillin
piperacillin sodium/tazobactam sodium	Zosyn
piperacillin sodium/tazobactam sodium	piperacillin-tazobactam
plazomicin sulfate	Zemdri
plicamycin	Mithracin
polymyxin B sulfate	polymyxin B sulfate
quinupristin/dalfopristin	Synercid
rifabutin	Mycobutin
rifabutin	rifabutin
rifampin	Rifadin
rifampin	Rimactane
rifampin	rifampin
rifamycin sodium	Aemcolo
rifapentine	Priftin
rifaximin	Xifaxan
sarecycline HCl	Seysara
sparfloxacin	Zagam
spectinomycin HCl	Trobicin
streptomycin sulfate	streptomycin
streptozocin	Zanosar
sulfacetamide sodium	AK-Sulf
sulfacetamide sodium	Bleph-10
sulfacetamide sodium	Cetamide
sulfacetamide sodium	Isopto Cetamide
sulfacetamide sodium	Ocusulf
sulfacetamide sodium	Ocusulf-10
sulfacetamide sodium	Sodium Sulamyd
sulfacetamide sodium	Sulf-10
sulfacetamide sodium	Sulfac
sulfacetamide sodium	Sulfamide
sulfacetamide sodium	sulfacetamide sodium
sulfacytine	Renoquid
sulfadiazine	sulfadiazine
sulfamethoxazole	Gantanol
sulfamethoxazole/trimethoprim	Bactrim
sulfamethoxazole/trimethoprim	Bactrim DS

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
sulfamethoxazole/trimethoprim	Cotrim Double-Strength
sulfamethoxazole/trimethoprim	SMZ-TMP DS
sulfamethoxazole/trimethoprim	Septra
sulfamethoxazole/trimethoprim	Septra DS
sulfamethoxazole/trimethoprim	Septra I.V.
sulfamethoxazole/trimethoprim	Sulfamar
sulfamethoxazole/trimethoprim	Sulfatrim
sulfamethoxazole/trimethoprim	Sultrex
sulfamethoxazole/trimethoprim	sulfamethoxazole-trimethoprim
sulfisoxazole	sulfisoxazole
sulfisoxazole acetyl	Gantrisin Pediatric
sulfisoxazole/phenazopyridine HCl	Azo-Gantrisin
sulfisoxazole/phenazopyridine HCl	Azo-Sulfisoxazole
sulfisoxazole/phenazopyridine HCl	sulfisoxazole-phenazopyridine
tedizolid phosphate	Sivextro
telavancin HCl	Vibativ
telithromycin	Ketek
telithromycin	Ketek Pak
tetracycline HCl	Achromycin V
tetracycline HCl	Brodspec
tetracycline HCl	Emtet-500
tetracycline HCl	Sumycin
tetracycline HCl	Sumycin 250
tetracycline HCl	Sumycin 500
tetracycline HCl	tetracycline
ticarcillin disodium	Ticar
ticarcillin disodium/potassium clavulanate	Timentin
ticarcillin disodium/potassium clavulanate	ticarcillin-K clavulanat(bulk)
tigecycline	Tygacil
tigecycline	tigecycline
tobramycin	Bethkis
tobramycin	Tobi Podhaler
tobramycin	Tobrasol
tobramycin	Tobrex
tobramycin	Tomycine
tobramycin	tobramycin
tobramycin in 0.225 % sodium chloride	Tobi
tobramycin in 0.225 % sodium chloride	tobramycin in 0.225 % NaCl
tobramycin sulfate	Nebcin
tobramycin sulfate	tobramycin sulfate
tobramycin sulfate/sodium chloride	tobramycin in 0.9 % NaCl
tobramycin/nebulizer	Kitabis Pak
tobramycin/nebulizer	tobramycin with nebulizer
trimethoprim	Primsol
trimethoprim	Proloprim
trimethoprim	Trimpex
trimethoprim	trimethoprim

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
troleandomycin	Tao
trovafloxacin mesylate	Trovan
valrubicin	Valstar
valrubicin	valrubicin
vancomycin HCL/balanced salt solution no.2/PF	vancomycin (PF)-BSS
vancomycin HCl	Firvanq
vancomycin HCl	Vancocin
vancomycin HCl	Vancoled
vancomycin HCl	vancomycin
vancomycin HCl in sterile water	vancomycin HCl in water
vancomycin HCl in water for injection (PEG-400, NADA)	vancomycin-water inject (PEG)
vancomycin in 0.9 % sodium chloride	vancomycin in 0.9 % sodium chl
vancomycin in 5 % dextrose in water	vancomycin in dextrose 5 %
vonoprazan fumarate/amoxicillin trihydrate	Voquezna Dual Pak
vonoprazan fumarate/amoxicillin trihydrate/clarithromycin	Voquezna Triple Pak
Anticonvulsants	
GABAPENTIN	Fanatrex
brivaracetam	Briviact
cannabidiol (CBD)	Epidiolex
carbamazepine	Atretol
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol
carbamazepine	Tegretol XR
carbamazepine	carbamazepine
cenobamate	Xcopri
cenobamate	Xcopri Maintenance Pack
cenobamate	Xcopri Titration Pack
clobazam	Onfi
clobazam	Sympazan
clobazam	clobazam
clonazepam	Ceberclon
clonazepam	Klonopin
clonazepam	clonazepam
diazepam	Diastat
diazepam	Diastat AcuDial
diazepam	Diastat Pediatric
diazepam	Diastat Universal
diazepam	Valtoco
diazepam	diazepam
divalproex sodium	Depakote
divalproex sodium	Depakote ER
divalproex sodium	Depakote Sprinkles
divalproex sodium	divalproex
eslicarbazepine acetate	Aptiom
ethosuximide	Zarontin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ethosuximide	ethosuximide
ethotoin	Peganone
ezogabine	Potiga
felbamate	Felbatol
felbamate	felbamate
fenfluramine HCl	Fintepla
fosphenytoin sodium	Cerebyx
fosphenytoin sodium	fosphenytoin
gabapentin	Gabarone
gabapentin	Neurontin
gabapentin	gabapentin
gabapentin/dietary supplement, misc combo no.11	Therapentin-60
gabapentin/dietary supplement, misc combo no.11	Therapentin-90
ganaxolone	Ztalmey
lacosamide	Vimpat
lacosamide	lacosamide
lamotrigine	Lamictal
lamotrigine	Lamictal ODT
lamotrigine	Lamictal ODT Starter (Blue)
lamotrigine	Lamictal ODT Starter (Green)
lamotrigine	Lamictal ODT Starter (Orange)
lamotrigine	Lamictal Starter (Blue) Kit
lamotrigine	Lamictal Starter (Green) Kit
lamotrigine	Lamictal Starter (Orange) Kit
lamotrigine	Lamictal XR
lamotrigine	Lamictal XR Starter (Blue)
lamotrigine	Lamictal XR Starter (Green)
lamotrigine	Lamictal XR Starter (Orange)
lamotrigine	Subvenite
lamotrigine	Subvenite Starter (Blue) Kit
lamotrigine	Subvenite Starter (Green) Kit
lamotrigine	Subvenite Starter (Orange) Kit
lamotrigine	lamotrigine
levetiracetam	Elepsia XR
levetiracetam	Keppra
levetiracetam	Keppra XR
levetiracetam	Roweepra
levetiracetam	Roweepra XR
levetiracetam	Spritam
levetiracetam	levetiracetam
levetiracetam in sodium chloride, iso-osmotic	levetiracetam in NaCl (iso-os)
mephenytoin	Mesantoin
methsuximide	Celontin
midazolam	Nayzilam
oxcarbazepine	Oxtellar XR
oxcarbazepine	Trileptal
oxcarbazepine	oxcarbazepine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
paramethadione	Paradione
perampanel	Fycompa
phenobarbital	phenobarbital
phenobarbital sodium	Luminal
phenobarbital sodium	phenobarbital sodium
phenytoin	Dilantin Infatabs
phenytoin	Dilantin-125
phenytoin	phenytoin
phenytoin sodium	Di-Phen
phenytoin sodium	phenytoin sodium
phenytoin sodium extended	Dilantin
phenytoin sodium extended	Dilantin Extended
phenytoin sodium extended	Dilantin Kapseal
phenytoin sodium extended	Phenytek
phenytoin sodium extended	phenytoin sodium extended
pregabalin	Lyrica
pregabalin	pregabalin
primidone	Mysoline
primidone	primidone
rufinamide	Banzel
rufinamide	rufinamide
stiripentol	Diacomit
tiagabine HCl	Gabitril
tiagabine HCl	tiagabine
topiramate	Eprontia
topiramate	Qudexy XR
topiramate	Topamax
topiramate	Topiragen
topiramate	Trokendi XR
topiramate	topiramate
valproic acid	Depakene
valproic acid	Stavzor
valproic acid	valproic acid
valproic acid (as sodium salt) (valproate sodium)	Depacon
valproic acid (as sodium salt) (valproate sodium)	Depakene
valproic acid (as sodium salt) (valproate sodium)	valproate sodium
valproic acid (as sodium salt) (valproate sodium)	valproic acid (as sodium salt)
vigabatrin	Sabril
vigabatrin	Vigadrone
vigabatrin	vigabatrin
zonisamide	Zonegran
zonisamide	Zonisade
zonisamide	zonisamide
Antidiabetics	
Insulin Regular, Human/Insulin Release Unit/Chamber/Inhaler	Exubera Kit
acarbose	Precose
acarbose	acarbose

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
acetoexamide	Dymelor
acetoexamide	acetoexamide
albiglutide	Tanzeum
alogliptin benzoate	Nesina
alogliptin benzoate	alogliptin
alogliptin benzoate/metformin HCl	Kazano
alogliptin benzoate/metformin HCl	alogliptin-metformin
alogliptin benzoate/pioglitazone HCl	Oseni
alogliptin benzoate/pioglitazone HCl	alogliptin-pioglitazone
bromocriptine mesylate	Cycloset
canagliflozin	Invokana
canagliflozin/metformin HCl	Invokamet
canagliflozin/metformin HCl	Invokamet XR
chlorpropamide	Diabinese
chlorpropamide	chlorpropamide
dapagliflozin propanediol	Farxiga
dapagliflozin propanediol/metformin HCl	Xigduo XR
dapagliflozin propanediol/saxagliptin HCl	Qtern
dulaglutide	Trulicity
empagliflozin	Jardiance
empagliflozin/linagliptin	Glyxambi
empagliflozin/linagliptin/metformin HCl	Trijardy XR
empagliflozin/metformin HCl	Synjardy
empagliflozin/metformin HCl	Synjardy XR
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/metformin HCl	Segluromet
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
glimepiride	Amaryl
glimepiride	glimepiride
glipizide	Glucotrol
glipizide	Glucotrol XL
glipizide	glipizide
glipizide/metformin HCl	Metaglip
glipizide/metformin HCl	glipizide-metformin
glyburide	Diabeta
glyburide	Micronase
glyburide	glyburide
glyburide,micronized	Glycron
glyburide,micronized	Glynase
glyburide,micronized	glyburide micronized
glyburide/metformin HCl	Glucovance
glyburide/metformin HCl	glyburide-metformin
insulin NPH human isophane	Humulin N NPH Insulin KwikPen
insulin NPH human isophane	Humulin N NPH U-100 Insulin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
insulin NPH human isophane	Humulin N Pen
insulin NPH human isophane	Novolin N Flexpen
insulin NPH human isophane	Novolin N InnoLet
insulin NPH human isophane	Novolin N NPH U-100 Insulin
insulin NPH human isophane	Novolin N PenFill
insulin NPH human isophane/insulin regular, human	Humulin 50/50
insulin NPH human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 KwikPen
insulin NPH human isophane/insulin regular, human	Novolin 70-30 FlexPen U-100
insulin NPH human isophane/insulin regular, human	Novolin 70/30 InnoLet Insulin
insulin NPH human isophane/insulin regular, human	Novolin 70/30 PenFill
insulin NPH human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin
insulin aspart	Novolog Flexpen U-100 Insulin
insulin aspart	Novolog PenFill U-100 Insulin
insulin aspart	Novolog U-100 Insulin aspart
insulin aspart	insulin aspart U-100
insulin aspart (niacinamide)	Fiasp FlexTouch U-100 Insulin
insulin aspart (niacinamide)	Fiasp Penfill U-100 Insulin
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30FlexPen U-100
insulin aspart protamine human/insulin aspart	insulin asp prt-insulin aspart
insulin degludec	Tresiba FlexTouch U-100
insulin degludec	Tresiba FlexTouch U-200
insulin degludec	Tresiba U-100 Insulin
insulin degludec	insulin degludec
insulin degludec/liraglutide	Xultophy 100/3.6
insulin detemir	Levemir FlexPen
insulin detemir	Levemir FlexTouch U-100 Insulin
insulin detemir	Levemir Flexpen
insulin detemir	Levemir U-100 Insulin
insulin glargine,human recombinant analog	Basaglar KwikPen U-100 Insulin
insulin glargine,human recombinant analog	Basaglar Tempo Pen(U-100)Insln
insulin glargine,human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine,human recombinant analog	Lantus U-100 Insulin
insulin glargine,human recombinant analog	Semglee Pen U-100 Insulin
insulin glargine,human recombinant analog	Semglee U-100 Insulin
insulin glargine,human recombinant analog	Toujeo Max U-300 SoloStar
insulin glargine,human recombinant analog	Toujeo SoloStar U-300 Insulin
insulin glargine,human recombinant analog	insulin glargine
insulin glargine,human recombinant analog/lixisenatide	Soliqua 100/33
insulin glargine-yfgn	Semglee(insulin glarg-yfgn)Pen
insulin glargine-yfgn	Semglee(insulin glargine-yfgn)
insulin glargine-yfgn	insulin glargine-yfgn
insulin glulisine	Apidra SoloStar U-100 Insulin
insulin glulisine	Apidra U-100 Insulin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
insulin isophane NPH,bf-pk	Iletin I NPH
insulin isophane,beef	insulin isophane beef
insulin isophane,pork pure	Iletin II NPH (Pork)
insulin isophane,pork pure	insulin isophane pork pure
insulin lispro	Admelog SoloStar U-100 Insulin
insulin lispro	Admelog U-100 Insulin lispro
insulin lispro	Humalog Junior KwikPen U-100
insulin lispro	Humalog KwikPen Insulin
insulin lispro	Humalog Pen
insulin lispro	Humalog Tempo Pen(U-100)Insuln
insulin lispro	Humalog U-100 Insulin
insulin lispro	insulin lispro
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insuln U-100
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	insulin lispro protamin-lispro
insulin lispro-aabc	Lyumjev KwikPen U-100 Insulin
insulin lispro-aabc	Lyumjev KwikPen U-200 Insulin
insulin lispro-aabc	Lyumjev Tempo Pen(U-100)Insuln
insulin lispro-aabc	Lyumjev U-100 Insulin
insulin reg, hum s-s buff	Velosulin BR
insulin reg, hum s-s buff	Velosulin Human Br
insulin regular, human	Afrezza
insulin regular, human	Humulin R Regular U-100 Insuln
insulin regular, human	Humulin R U-500 (Conc) Insulin
insulin regular, human	Humulin R U-500 (Conc) Kwikpen
insulin regular, human	Novolin R Flexpen
insulin regular, human	Novolin R InnoLet
insulin regular, human	Novolin R PenFill
insulin regular, human	Novolin R Regular U-100 Insuln
insulin regular, human in 0.9 % sodium chloride	Myxredlin
insulin regular, human/insulin release unit	Exubera Combination Pack 12
insulin regular, human/insulin release unit	Exubera Combination Pack 15
insulin regular, human/insulin release unit	Exubera Patient Pack
insulin regular,beef-pork	Iletin I Regular
insulin regular,human buffered	Velosulin BR (rDNA)
insulin regular,human buffered	Velosulin Human Br
insulin zinc beef	Insulin Lente Beef
insulin zinc extended human recombinant	Humulin U Insulin
insulin zinc human recombinant	Humulin L
insulin zinc human recombinant	Novolin L
insulin zinc,beef-pork	Iletin I Lente
insulin zinc,pork purified	Iletin II Lente (Pork)
insulin zinc,pork purified	insulin zinc pork purified
insulin,pork	insulin regular pork
insulin,pork purified	Iletin II Regular (Pork)

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Generic Name	Brand Name
insulin,pork purified	Insulin Purified Regular(Pork)
insulin,pork purified	Insulin Regular Purified Pork
linagliptin	Tradjenta
linagliptin/metformin HCl	Jentadueto
linagliptin/metformin HCl	Jentadueto XR
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
lixisenatide	Adlyxin
metformin HCl	Fortamet
metformin HCl	Glucophage
metformin HCl	Glucophage XR
metformin HCl	Glumetza
metformin HCl	Riomet
metformin HCl	Riomet ER
metformin HCl	metformin
metformin/amino acids no.7/herbal cmb.125/choline bitartrate	Appformin-D
metformin/caffeine/amino acids 7/herbal comb 125/choline bit	Appformin
mifepristone	Korlym
miglitol	Glyset
miglitol	miglitol
nateglinide	Starlix
nateglinide	nateglinide
pioglitazone HCl	Actos
pioglitazone HCl	pioglitazone
pioglitazone HCl/glimepiride	DUETACT
pioglitazone HCl/glimepiride	pioglitazone-glimepiride
pioglitazone HCl/metformin HCl	Actoplus MET
pioglitazone HCl/metformin HCl	Actoplus Met XR
pioglitazone HCl/metformin HCl	pioglitazone-metformin
pramlintide acetate	Symlin
pramlintide acetate	SymlinPen 120
pramlintide acetate	SymlinPen 60
repaglinide	Prandin
repaglinide	repaglinide
repaglinide/metformin HCl	Prandimet
repaglinide/metformin HCl	repaglinide-metformin
rosiglitazone maleate	Avandia
rosiglitazone maleate/glimepiride	Avandaryl
rosiglitazone maleate/metformin HCl	Avandamet
saxagliptin HCl	Onglyza
saxagliptin HCl/metformin HCl	Kombiglyze XR
semaglutide	Ozempic
semaglutide	Rybelsus
sitagliptin phosphate	Januvia
sitagliptin phosphate/metformin HCl	Janumet
sitagliptin phosphate/metformin HCl	Janumet XR
sitagliptin phosphate/simvastatin	Juvisync

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
tirzepatide	Mounjaro
tolazamide	Tolinase
tolazamide	tolazamide
tolbutamide	Orinase
tolbutamide	tolbutamide
troglitazone	Rezulin
Antihypertensives	
aliskiren hemifumarate	Tekturna
aliskiren hemifumarate	aliskiren
aliskiren hemifumarate/amlodipine besylate	Tekamlo
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
aliskiren/valsartan	Valturna
ambrisentan	Letairis
ambrisentan	ambrisentan
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
atenolol/chlorthalidone	Tenoretic 100
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	atenolol-chlorthalidone
azilsartan medoxomil	Edarbi
azilsartan medoxomil/chlorthalidone	Edarbyclor
benazepril HCl	Lotensin
benazepril HCl	benazepril
benazepril HCl/hydrochlorothiazide	Lotensin HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	Ziac
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
bosentan	Tracleer
bosentan	bosentan
candesartan cilexetil	Atacand
candesartan cilexetil	candesartan
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
captopril	Capoten
captopril	captopril
captopril/hydrochlorothiazide	Capozide
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3

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Generic Name	Brand Name
clonidine	clonidine
clonidine HCl	Catapres
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
clonidine HCl/chlorthalidone	Clorpres
clonidine HCl/chlorthalidone	Combipres-1
clonidine HCl/chlorthalidone	Combipres-2
clonidine HCl/chlorthalidone	clonidine-chlorthalidone
deserpidine/methylothiazide	Enduronyl
deserpidine/methylothiazide	Enduronyl Forte
diazoxide	Hyperstat
doxazosin mesylate	Cardura
doxazosin mesylate	Cardura XL
doxazosin mesylate	doxazosin
enalapril maleate	Epaned
enalapril maleate	Vasotec
enalapril maleate	enalapril maleate
enalapril maleate/diltiazem malate	Teczem
enalapril maleate/felodipine	Lexxel
enalapril maleate/hydrochlorothiazide	Vaseretic
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
enalaprilat dihydrate	Vasotec
enalaprilat dihydrate	enalaprilat
eplerenone	Inspra
eplerenone	eplerenone
epoprostenol sodium	Veletri
epoprostenol sodium	epoprostenol
epoprostenol sodium (glycine)	Flolan
epoprostenol sodium (glycine)	epoprostenol (glycine)
eprosartan mesylate	Teveten
eprosartan mesylate	eprosartan
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
ethaverine HCl	Ethavex-100
ethaverine HCl	Isovox
ethaverine HCl	ethaverine
fenoldopam mesylate	Corlopam
fenoldopam mesylate	fenoldopam
fosinopril sodium	Monopril
fosinopril sodium	fosinopril
fosinopril sodium/hydrochlorothiazide	Monopril HCT
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
guanabenz acetate	Wytensin
guanabenz acetate	guanabenz
guanadrel sulfite	Hylorel
guanethidine sulfite	Ismelin
guanethidine sulfite/hydrochlorothiazide	Esimil
guanfacine HCl	Tenex

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Generic Name	Brand Name
guanfacine HCl	guanfacine
hydralazine HCl	Apresoline
hydralazine HCl	hydralazine
hydralazine HCl/hydrochlorothiazide	Apresazide
hydralazine HCl/hydrochlorothiazide	Hydra-Zide
hydralazine HCl/hydrochlorothiazide	hydralazine-hydrochlorothiazid
hydralazine HCl/reserpine/hydrochlorothiazide	Cam-Ap-Es
hydralazine HCl/reserpine/hydrochlorothiazide	Ser-A-Gen
hydralazine HCl/reserpine/hydrochlorothiazide	Serpazide
hydralazine HCl/reserpine/hydrochlorothiazide	Tri-Hydroserpine
hydralazine HCl/reserpine/hydrochlorothiazide	Uni-Serp
hydralazine HCl/reserpine/hydrochlorothiazide	hydralazine-reserpin-hcthiazid
irbesartan	Avapro
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
isosorbide dinitrate/hydralazine HCl	BiDil
isosorbide dinitrate/hydralazine HCl	isosorbide-hydralazine
isoxsuprine HCl	Vasodilan
isoxsuprine HCl	isoxsuprine
lisinopril	Prinivil
lisinopril	Qbrelis
lisinopril	Zestril
lisinopril	lisinopril
lisinopril/dietary supplement,comb.10	Lytensopril
lisinopril/dietary supplement,comb.10	Lytensopril-90
lisinopril/hydrochlorothiazide	Prinzide
lisinopril/hydrochlorothiazide	Zestoretic
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
losartan potassium	Cozaar
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
macitentan	Opsumit
mecamylamine HCl	Inversine
mecamylamine HCl	Vecamyl
methyldopa	Aldomet
methyldopa	methyldopa
methyldopa/chlorothiazide	Aldoclor
methyldopa/hydrochlorothiazide	Aldoril D30
methyldopa/hydrochlorothiazide	Aldoril D50
methyldopa/hydrochlorothiazide	Aldoril-15
methyldopa/hydrochlorothiazide	Aldoril-25
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
methyldopate HCl	methyldopate
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz

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Generic Name	Brand Name
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
metyrosine	Demser
metyrosine	metyrosine
minoxidil	Loniten
minoxidil	minoxidil
moexipril HCl	Univasc
moexipril HCl	moexipril
moexipril HCl/hydrochlorothiazide	Uniretic
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
nadolol/bendroflumethiazide	Corzide
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
nebivolol HCl/valsartan	Byvalson
nitroprusside sodium	Nitropress
nitroprusside sodium	sodium nitroprusside
nitroprusside sodium in 0.9 % sodium chloride	Nipride RTU
olmesartan medoxomil	Benicar
olmesartan medoxomil	olmesartan
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazyd
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
papaverine HCl	Para-Time
papaverine HCl	Pavabid
papaverine HCl	Pavacot SA
papaverine HCl	papaverine
perindopril arginine/amlodipine besylate	Prestalia
perindopril erbumine	Aceon
perindopril erbumine	perindopril erbumine
phenoxybenzamine HCl	Dibenzyline
phenoxybenzamine HCl	phenoxybenzamine
phentolamine mesylate	Regitine
phentolamine mesylate	phentolamine
prazosin HCl	Minipress
prazosin HCl	prazosin
prazosin HCl/polythiazide	Minizide
prazosin HCl/polythiazide	Minizide 2
propranolol HCl/hydrochlorothiazide	Inderide
propranolol HCl/hydrochlorothiazide	Inderide LA
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
quinapril HCl	Accupril
quinapril HCl	quinapril
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	Quinaretic
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
ramipril	Altace
ramipril	ramipril

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Generic Name	Brand Name
rauwolfia serpentina/bendroflumethiazide	Flumezide
rauwolfia serpentina/bendroflumethiazide	Rauzide
rauwolfia serpentina/bendroflumethiazide	Rondameth
rauwolfia serpentina/bendroflumethiazide	bendroflumethiazide-rauwolfia
reserpine	reserpine
reserpine/hydrochlorothiazide	Hydro-Reserp
reserpine/hydrochlorothiazide	reserpine-hydrochlorothiazide
reserpine/hydroflumethiazide	Salutensin
reserpine/hydroflumethiazide	Salutensin-Demi
reserpine/methyclothiazide	Diutensen-R
reserpine/polythiazide	Renese-R
riociguat	Adempas
sacubitril/valsartan	Entresto
selexipag	Uptravi
sildenafil citrate	Revatio
sildenafil citrate	sildenafil (pulm.hypertension)
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
tadalafil	Adcirca
tadalafil	Alyq
tadalafil	Tadliq
tadalafil	tadalafil (pulm. hypertension)
telmisartan	Micardis
telmisartan	telmisartan
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
terazosin HCl	Hytrin
terazosin HCl	terazosin
timolol maleate/hydrochlorothiazide	Timolide
tolazoline HCl	Priscoline
trandolapril	Mavik
trandolapril	trandolapril
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil
treprostinil diolamine	Orenitram
treprostinil sodium	Remodulin
treprostinil sodium	treprostinil sodium
valsartan	Diovan
valsartan	valsartan
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
Antiasthmatics	
acridinium bromide	Tudorza Pressair
acridinium bromide/formoterol fumarate	Duaklir Pressair

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Generic Name	Brand Name
albuterol	Proventil
albuterol	Proventil (Refill)
albuterol	Respirol
albuterol	Ventolin
albuterol	Ventolin Refill
albuterol	albuterol
albuterol	albuterol (refill)
albuterol sulfate	AccuNeb
albuterol sulfate	Airet
albuterol sulfate	ProAir HFA
albuterol sulfate	ProAir RespiClick
albuterol sulfate	Proair Digihaler
albuterol sulfate	Proventil
albuterol sulfate	Proventil HFA
albuterol sulfate	Ventolin
albuterol sulfate	Ventolin HFA
albuterol sulfate	Ventolin Rotacaps
albuterol sulfate	Ventolin Rotahaler/Rotacaps
albuterol sulfate	Volmax
albuterol sulfate	Vospire ER
albuterol sulfate	albuterol sulfate
aminophylline	Truphylline
aminophylline	aminophylline
aminophylline/ephedrine/potassium iodide/phenobarbital	Dainite-KI
arformoterol tartrate	Brovana
arformoterol tartrate	arformoterol
beclomethasone dipropionate	Beclovent
beclomethasone dipropionate	Beclovent Refill
beclomethasone dipropionate	Qvar
beclomethasone dipropionate	Qvar RediHaler
beclomethasone dipropionate	Vanceril
beclomethasone dipropionate	Vanceril Double Strength
benralizumab	Fasenra
benralizumab	Fasenra Pen
bitolterol mesylate	Tornalate
bitolterol mesylate	Tornalate Refill
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	Pulmicort Turbuhaler
budesonide	budesonide
budesonide/formoterol fumarate	Symbicort
budesonide/formoterol fumarate	budesonide-formoterol
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
ciclesonide	Alvesco
cromolyn sodium	Intal
cromolyn sodium	Intal 112
cromolyn sodium	Intal 200

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Generic Name	Brand Name
cromolyn sodium	cromolyn
dupilumab	Dupixent Pen
dupilumab	Dupixent Syringe
dyphylline	Dilor
dyphylline	Dylix
dyphylline	Lufyllin
dyphylline	Neothylline
ephedrine HCl	Primatene
ephedrine HCl	ephedrine HCl
ephedrine sulfate	Bronkaid Max
ephedrine sulfate	ephedrine sulfate
ephedrine sulfate/guaifenesin	Bronkaid Dual Action
ephedrine/potassium iodide	KIE
epinephrine	Adrenalin
epinephrine	Ana-Guard
epinephrine	Asthmanefrin
epinephrine	Bronchial Mist
epinephrine	Bronchial Mist Refill
epinephrine	Epinephrine Mist
epinephrine	Epinephrine Mist Refill
epinephrine	Micronefrin
epinephrine	Nephron
epinephrine	Primatene Mist
epinephrine	Primatene Mist Refill
epinephrine	Sus-Phrine
epinephrine	epinephrine
epinephrine	epinephrine HCl
epinephrine bitartrate	Asthmahaler
epinephrine bitartrate	Asthmahaler Refill
epinephrine bitartrate	Epinephrine Mist
epinephrine bitartrate	Epinephrine Mist Refill
epinephrine bitartrate	epinephrine bitartrate
flunisolide	Aerobid
flunisolide	Aerospan
flunisolide/menthol	Aerobid-M
fluticasone furoate	Arnuity Ellipta
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone furoate/vilanterol trifenate	fluticasone furoate-vilanterol
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	ArmonAir RespiClick
fluticasone propionate	Flovent
fluticasone propionate	Flovent Diskus
fluticasone propionate	Flovent HFA
fluticasone propionate	Flovent Rotadisk
fluticasone propionate	fluticasone propionate
fluticasone propionate/salmeterol xinafoate	Advair Diskus

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Generic Name	Brand Name
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
formoterol fumarate	Foradil Aerolizer
formoterol fumarate	Perforomist
formoterol fumarate	formoterol fumarate
glycopyrrolate	Seebri Neohaler
glycopyrrolate/formoterol fumarate	Bevespi Aerosphere
glycopyrrolate/nebulizer accessories	Lonhala Magnair Refill
glycopyrrolate/nebulizer and accessories	Lonhala Magnair Starter
guaifenesin/dyphylline	Bi-Filin G
guaifenesin/dyphylline	Brondil
guaifenesin/dyphylline	Bronkophylline GG
guaifenesin/dyphylline	COPD
guaifenesin/dyphylline	D-G Liquid
guaifenesin/dyphylline	DG 200
guaifenesin/dyphylline	DILEX-G 400
guaifenesin/dyphylline	Difil G Forte
guaifenesin/dyphylline	Difil-G
guaifenesin/dyphylline	Difil-G 400
guaifenesin/dyphylline	Dilex-G
guaifenesin/dyphylline	Dilex-G 200
guaifenesin/dyphylline	Dilor-G
guaifenesin/dyphylline	Dy-G
guaifenesin/dyphylline	Dyfilin-GG
guaifenesin/dyphylline	Dyflex
guaifenesin/dyphylline	Dyflex-G
guaifenesin/dyphylline	Dyline-GG
guaifenesin/dyphylline	Dyphyl-G
guaifenesin/dyphylline	Dyphylline GG ES
guaifenesin/dyphylline	Dyphylline-GG
guaifenesin/dyphylline	Dyphysin
guaifenesin/dyphylline	Jay-Phyl
guaifenesin/dyphylline	Lufyllin-GG
guaifenesin/dyphylline	Neothylline-GG
guaifenesin/dyphylline	Panfil-G
guaifenesin/dyphylline	dyphylline-guaifenesin
guaifenesin/dyphylline/ephedrine/phenobarbital	Lufyllin-EPG
guaifenesin/oxtriphylline	Brondelate
guaifenesin/theophylline	Broncap
guaifenesin/theophylline	Broncodur
guaifenesin/theophylline	Ed-Bron G
guaifenesin/theophylline	Elixophyllin GG
guaifenesin/theophylline	MYCI BRON-G
guaifenesin/theophylline	Quibron

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Generic Name	Brand Name
guaifenesin/theophylline	Quibron-300
guaifenesin/theophylline	Slo-Phyllin GG
guaifenesin/theophylline	Theolate
guaifenesin/theophylline	Theomar GG
guaifenesin/theophylline anhydrous/pseudoephedrine	Broncomar-1
indacaterol maleate	Arcapta Neohaler
indacaterol maleate/glycopyrrolate	Utibron Neohaler
ipratropium bromide	Atrovent
ipratropium bromide	Atrovent HFA
ipratropium bromide	Atrovent Refill
ipratropium bromide	ipratropium bromide
ipratropium bromide/albuterol sulfate	Combivent
ipratropium bromide/albuterol sulfate	Combivent Respimat
ipratropium bromide/albuterol sulfate	DuoNeb
ipratropium bromide/albuterol sulfate	ipratropium-albuterol
isoetharine HCl	Arm-A-Med (isoetharine)
isoetharine HCl	Bronkosol
isoetharine HCl	isoetharine HCl
isoproterenol HCl	Isuprel
isoproterenol HCl	Isuprel Mistometer
isoproterenol HCl	Isuprel Mistometer Refill
isoproterenol HCl	isoproterenol HCl
isoproterenol sulfate	Medihaler-Iso
isoproterenol sulfate	Medihaler-Iso Refill
levalbuterol HCl	Xopenex
levalbuterol HCl	Xopenex Concentrate
levalbuterol HCl	levalbuterol HCl
levalbuterol tartrate	Xopenex HFA
levalbuterol tartrate	levalbuterol tartrate
mepolizumab	Nucala
metaproterenol sulfate	Alupent
metaproterenol sulfate	metaproterenol
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate/formoterol fumarate	Dulera
montelukast sodium	Singulair
montelukast sodium	montelukast
nedocromil sodium	Tilade
olodaterol HCl	Striverdi Respimat
omalizumab	Xolair
oxtriphylline	Choledyl SA
pirbuterol acetate	Maxair
pirbuterol acetate	Maxair Autohaler
racepinephrine HCl	Asthmanefrin Refill
racepinephrine HCl	Asthmanefrin Starter Kit
racepinephrine HCl	S2 Racepinephrine
racepinephrine HCl	racepinephrine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
reslizumab	Cinqair
revefenacin	Yupelri
roflumilast	Daliresp
roflumilast	roflumilast
salmeterol xinafoate	Serevent
salmeterol xinafoate	Serevent Diskus
salmeterol xinafoate	Serevent Refill
terbutaline sulfate	Brethaire
terbutaline sulfate	Brethaire Refill
terbutaline sulfate	Brethine
terbutaline sulfate	Bricanyl
terbutaline sulfate	terbutaline
tezepelumab-ekko	Tezspire
theophylline anhydrous	Aerolate III TD
theophylline anhydrous	Aerolate Jr
theophylline anhydrous	Aerolate Sr
theophylline anhydrous	Elixophyllin
theophylline anhydrous	Quibron-T
theophylline anhydrous	Quibron-T/SR
theophylline anhydrous	Slo-Bid Gyrocaps
theophylline anhydrous	Slo-Phyllin
theophylline anhydrous	Slo-Phyllin 80
theophylline anhydrous	T-Phyl
theophylline anhydrous	Theo-24
theophylline anhydrous	Theo-Dur
theophylline anhydrous	Theo-X
theophylline anhydrous	TheoCap
theophylline anhydrous	Theochron
theophylline anhydrous	Theolair
theophylline anhydrous	Theolair-SR
theophylline anhydrous	Truxophyllin
theophylline anhydrous	Uni-Dur
theophylline anhydrous	Uniphyll
theophylline anhydrous	theophylline
theophylline in dextrose 5 % in water	theophylline in dextrose 5 %
theophylline/caffeine/amino acids no.13/cinnamon/herbal 135	Pulmophylline-Pulmona
theophylline/dietary supplement,misc.comb.no.9	Senophylline
theophylline/ephedrine HCl/phenobarbital	Asthma
theophylline/ephedrine HCl/phenobarbital	Theophen
theophylline/ephedrine HCl/phenobarbital	theophylline-ephed-phenobarb
theophylline/ephedrine/potassium iodide/phenobarbital	Quadrinal
theophylline/potassium iodide	Elixophyllin-KI
tiotropium bromide	Spiriva Respimat
tiotropium bromide	Spiriva with HandiHaler
tiotropium bromide/olodaterol HCl	Stiolto Respimat
triamcinolone acetonide	Azmacort
umeclidinium bromide	Incruse Ellipta

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
umeclidinium bromide/vilanterol trifenate	Anoro Ellipta
zafirlukast	Accolate
zafirlukast	zafirlukast
zileuton	Zyflo
zileuton	Zyflo CR
zileuton	zileuton
Antihistamines	
Brompheniramine Mal/Diphenhydramine HCl/Phenylephrine HCl	Ala-Hist D
Chlorcyclizine HCl/Phenylephrine HCl/Codeine Phosphate	Nasotuss
Chlorpheniramine Mal/Phenylephrine HCl/Carbetapentane Citr	Carbaphen 12
Chlorpheniramine Mal/Phenylephrine HCl/Carbetapentane Citr	Carbaphen 12 Ped
Chlorpheniramine Maleate/Codeine Phosphate/Acetaminophen	Cotabflu
D-Methorphan Tan/Phenylephrine Tan/Pyril Mal/D-Bromphen Tan	Poly Tan DM
DIPHENHYDRAMINE HCL	Dicopan
Dexchlorpheniramine Mal/Pseudoephedrine/Methscopolamine Nit	CoryZa-D
Dexchlorpheniramine Mal/Pseudoephedrine/Methscopolamine Nit	D-Hist D
Dexchlorpheniramine Mal/Pseudoephedrine/Methscopolamine Nit	Durahist D
Dexchlorpheniramine Mal/Pseudoephedrine/Methscopolamine Nit	Histatab D
Dextromethorphan Hbr/Phenylephrine/Acetaminophen/Pyrilamine	Mastussin Night Relief
Dextromethorphan Tannate/Phenylephrine Tan/Dexchlorphen Tan	Donatussin DM
Dextromethorphan Tannate/Phenylephrine Tan/Dexchlorphen Tan	dexchlorphenir-phenylep-DM tan
Dextromethorphan, Pseudoephedrine, & Pyrilamine Tannates	Viravan-PDM (Tannate)
Dextromethorphan/Phenylephrine/Diphenhydramine Tannates	D-Tann DM
Dextromethorphan/Phenylephrine/Diphenhydramine Tannates	Duratuss AC12
Dextromethorphan/Phenylephrine/Diphenhydramine Tannates	Dytan-DM
Dextromethorphan/Phenylephrine/Diphenhydramine Tannates	Livetan DM
Dextromethorphan/Phenylephrine/Pyrilamine/Dexchlorpheniramin	CoryZa-DM
Dextromethorphan/Phenylephrine/Pyrilamine/Dexchlorpheniramin	P-Hist
Dextromethorphan/Phenylephrine/Pyrilamine/Dexchlorpheniramin	ProHist Syrup
Dextromethorphan/Phenylephrine/Pyrilamine/Dexchlorpheniramin	Resperal
Guaifen/Dextrometh/Phenyleph/Chlorpheniramin/Methscopolamine	Sympak DM
NYSTATIN/HYDROCORTISONE/DIPHENHYDRAMINE HCL	FIRST-Duke's
NYSTATIN/LIDOCAINE HCL/DIPHENHYDRAMINE HCL	First-BXN
NYSTATIN/TETRACYCLINE	FIRST-Mary's Mouthwash
HCL/HYDROCORTISONE/DIPHENHYDRAMINE HCL	
Phenylephrine HCl/Dexchlorpheniramine Mal/Methscopolamine	Dexphen M
Phenylephrine HCl/Dexchlorpheniramine Mal/Methscopolamine	Extendryl
Phenylephrine HCl/Dexchlorpheniramine Mal/Methscopolamine	Re-Drylex
Phenylephrine Tannate/Pyrilamine Maleate/Dexbromphen Tannat	Poly Tan D
Phenylephrine, Chlorpheniramine, & Methscopolamine Tannates	Ah-Chew Ultra
Phenylephrine/Acetaminophen/Diphenhydramine/Chlorpheniramine	Allergy Multi-Sympt Day-Night
Phenylephrine/Acetaminophen/Diphenhydramine/Chlorpheniramine	Tylenol Allergy M-S Day/Night
Phenylephrine/Chlorpheniramine/Methscopolamine/Zinc Acetate	Zinx Kids Sneeze Kit

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
Phenylephrine/Hydrocodone/Dexchlorpheniramine Tannates	Tussinal 12
Phenylephrine/Phenylephrine&Pyrilamine Tannate/Chlorphenirmn	PHENA-S 12
Pseudoephedrine/Hydrocodone/Chlorpheniramine Tannates	Atuss HS
Pyrilamine Maleate/Phenylephrine HCl/Codeine Phosphate	Pro-Red AC (with pyrilamine)
Pyrilamine Maleate/Phenylephrine HCl/Codeine Phosphate	Zotex-C
acetaminophen/chlorpheniramine maleate	COLD and FLU BP
acetaminophen/chlorpheniramine maleate	Coricidin
acetaminophen/chlorpheniramine maleate	Coricidin HBP Cold and Flu
acetaminophen/dexbrompheniramine maleate	Actidogesic
acetaminophen/dexbrompheniramine maleate	Dologen
acetaminophen/dexbrompheniramine maleate	Dologen 325
acetaminophen/dexbrompheniramine maleate	Dologesic (w-dexbromphenirmn)
acetaminophen/dexbrompheniramine maleate	Dologesic-DF
acetaminophen/dexbrompheniramine maleate	G-Dologen
acetaminophen/diphenhydramine HCl	Aceta-Gesic
acetaminophen/diphenhydramine HCl	Acetadryl
acetaminophen/diphenhydramine HCl	Acetaminophen Ex Str Sleep Aid
acetaminophen/diphenhydramine HCl	Acetaminophen PM
acetaminophen/diphenhydramine HCl	Acetaminophen PM Extra Str
acetaminophen/diphenhydramine HCl	Allergy Severe
acetaminophen/diphenhydramine HCl	Aspirin Free Headache PM
acetaminophen/diphenhydramine HCl	Cold Relief
acetaminophen/diphenhydramine HCl	EaZZe The Pain
acetaminophen/diphenhydramine HCl	Ex-Strength Medi-Tabs PM
acetaminophen/diphenhydramine HCl	Excedrin P.M.
acetaminophen/diphenhydramine HCl	Genapap PM Extra Strength
acetaminophen/diphenhydramine HCl	Headache PM
acetaminophen/diphenhydramine HCl	Leg Ease PM
acetaminophen/diphenhydramine HCl	Leg Pain Relief PM
acetaminophen/diphenhydramine HCl	Legatrin PM
acetaminophen/diphenhydramine HCl	Mapap PM
acetaminophen/diphenhydramine HCl	Masophen PM
acetaminophen/diphenhydramine HCl	Medi-Tabs PM
acetaminophen/diphenhydramine HCl	Midol PM
acetaminophen/diphenhydramine HCl	Midol PM Night Time Formula
acetaminophen/diphenhydramine HCl	Night Time Pain Medicine
acetaminophen/diphenhydramine HCl	Night-Time Cramp Relief
acetaminophen/diphenhydramine HCl	Nighttime Pain Plus Sleep
acetaminophen/diphenhydramine HCl	Non-ASA Ex St Pain/Sleep Aid
acetaminophen/diphenhydramine HCl	Non-ASA Severe Allergy
acetaminophen/diphenhydramine HCl	Non-Aspirin Nighttime
acetaminophen/diphenhydramine HCl	Non-Aspirin PM
acetaminophen/diphenhydramine HCl	Non-Aspirin Pain Relief PM
acetaminophen/diphenhydramine HCl	Non-Aspirin Severe Allergy
acetaminophen/diphenhydramine HCl	Non-Aspirin Sleep Aid
acetaminophen/diphenhydramine HCl	PM Pain Relief
acetaminophen/diphenhydramine HCl	Pain Medicine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
acetaminophen/diphenhydramine HCl	Pain PM
acetaminophen/diphenhydramine HCl	Pain Relief PM
acetaminophen/diphenhydramine HCl	Pain Relief PM Rapid Release
acetaminophen/diphenhydramine HCl	Pain Relief Severe Congestion
acetaminophen/diphenhydramine HCl	Pain Reliever (diphen-acetam)
acetaminophen/diphenhydramine HCl	Pain Reliever AM/PM
acetaminophen/diphenhydramine HCl	Pain Reliever PM
acetaminophen/diphenhydramine HCl	Pain Reliever PM Ex St
acetaminophen/diphenhydramine HCl	Pain Reliever PM Ex-Strength
acetaminophen/diphenhydramine HCl	Pain Reliever and Sleep Aid Pm
acetaminophen/diphenhydramine HCl	Pain Reliever-Sleep Aid
acetaminophen/diphenhydramine HCl	Pain and Sleep
acetaminophen/diphenhydramine HCl	Percogesic
acetaminophen/diphenhydramine HCl	Percogesic Extra Strength
acetaminophen/diphenhydramine HCl	Severe Allergy
acetaminophen/diphenhydramine HCl	Sominex 2 Pain Relief
acetaminophen/diphenhydramine HCl	Tylenol Cold Relief
acetaminophen/diphenhydramine HCl	Tylenol Cold Relief Nighttime
acetaminophen/diphenhydramine HCl	Tylenol Day and Night
acetaminophen/diphenhydramine HCl	Tylenol PM
acetaminophen/diphenhydramine HCl	Tylenol PM Extra Strength
acetaminophen/diphenhydramine HCl	Tylenol Severe Allergy
acetaminophen/diphenhydramine HCl	Tylenol Sore Throat Night
acetaminophen/diphenhydramine HCl	Tyltab PM
acetaminophen/diphenhydramine HCl	Unisom Dual Relief
acetaminophen/diphenhydramine HCl	Unisom PM Pain
acetaminophen/diphenhydramine HCl	Wal-Nadol PM
acetaminophen/diphenhydramine HCl	diphenhydramine-acetaminophen
acetaminophen/diphenhydramine citrate	Added Strength Pain Relief PM
acetaminophen/diphenhydramine citrate	Excedrin P.M.
acetaminophen/diphenhydramine citrate	Excedrin PM
acetaminophen/diphenhydramine citrate	Goody's PM
acetaminophen/diphenhydramine citrate	Headache PM
acetaminophen/diphenhydramine citrate	Headache Relief PM
acetaminophen/diphenhydramine citrate	Midol PM
acetaminophen/diphenhydramine citrate	Non-Aspirin PM
acetaminophen/diphenhydramine citrate	PM Pain Reliever
acetaminophen/diphenhydramine citrate	Pain Medicine P.M.
acetaminophen/diphenhydramine citrate	Pain Reliever PM
acetaminophen/phenyltoloxamine citrate	Aceta-Gesic (with phenyltolox)
acetaminophen/phenyltoloxamine citrate	Acuflex
acetaminophen/phenyltoloxamine citrate	Ali-flex
acetaminophen/phenyltoloxamine citrate	Alpain
acetaminophen/phenyltoloxamine citrate	Anagesic
acetaminophen/phenyltoloxamine citrate	Analgesic
acetaminophen/phenyltoloxamine citrate	Analox 500
acetaminophen/phenyltoloxamine citrate	Apagesic

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
acetaminophen/phenyltoloxamine citrate	Apaphen
acetaminophen/phenyltoloxamine citrate	Aspirin Free Analgesic
acetaminophen/phenyltoloxamine citrate	Beflex
acetaminophen/phenyltoloxamine citrate	Biogesic
acetaminophen/phenyltoloxamine citrate	Bioregesic
acetaminophen/phenyltoloxamine citrate	Biphenox Tension Headache
acetaminophen/phenyltoloxamine citrate	Cetalox FP
acetaminophen/phenyltoloxamine citrate	Contragesic
acetaminophen/phenyltoloxamine citrate	Dolocar
acetaminophen/phenyltoloxamine citrate	Dologen (phenyltolx-acetamin)
acetaminophen/phenyltoloxamine citrate	Dologesic (w-phenyltoloxamine)
acetaminophen/phenyltoloxamine citrate	Dolorex
acetaminophen/phenyltoloxamine citrate	Duogesic
acetaminophen/phenyltoloxamine citrate	Eckogesic
acetaminophen/phenyltoloxamine citrate	Enhance Pain Relief
acetaminophen/phenyltoloxamine citrate	Flextra DS
acetaminophen/phenyltoloxamine citrate	Flextra-650
acetaminophen/phenyltoloxamine citrate	Genasec
acetaminophen/phenyltoloxamine citrate	Genecar
acetaminophen/phenyltoloxamine citrate	Gesic
acetaminophen/phenyltoloxamine citrate	Hyflex-650
acetaminophen/phenyltoloxamine citrate	Hyflex-DS
acetaminophen/phenyltoloxamine citrate	Lagesic
acetaminophen/phenyltoloxamine citrate	Majorgesic
acetaminophen/phenyltoloxamine citrate	Medi-Gesic
acetaminophen/phenyltoloxamine citrate	Myophen
acetaminophen/phenyltoloxamine citrate	Neutralize
acetaminophen/phenyltoloxamine citrate	Novagesic
acetaminophen/phenyltoloxamine citrate	Pain-Gesic
acetaminophen/phenyltoloxamine citrate	Percogesic
acetaminophen/phenyltoloxamine citrate	Phenagesic
acetaminophen/phenyltoloxamine citrate	Phenylgesic
acetaminophen/phenyltoloxamine citrate	Phenylpap
acetaminophen/phenyltoloxamine citrate	Poly-650
acetaminophen/phenyltoloxamine citrate	Q-Gesic
acetaminophen/phenyltoloxamine citrate	Qflex
acetaminophen/phenyltoloxamine citrate	Relagesic
acetaminophen/phenyltoloxamine citrate	Rhinoflex
acetaminophen/phenyltoloxamine citrate	Rhinoflex-650
acetaminophen/phenyltoloxamine citrate	Staflex
acetaminophen/phenyltoloxamine citrate	Tension Headache Reliever
acetaminophen/phenyltoloxamine citrate	Uni-Perr
acetaminophen/phenyltoloxamine citrate	Vistra 650
acetaminophen/phenyltoloxamine citrate	Zflex
acetaminophen/phenyltoloxamine citrate	Zgesic
acetaminophen/phenyltoloxamine citrate	phenyltoloxamine-acetaminophen
acetaminophen/phenyltoloxamine citrate/caffeine	Flextra Plus

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
acetaminophen/pyrilamine maleate/caffeine	Menstrual Complete
acetaminophen/pyrilamine maleate/caffeine	Menstrual Relief
acetaminophen/pyrilamine maleate/caffeine	Midol Complete
acetaminophen/pyrilamine maleate/caffeine	Midol Max St Menstrual
alcaftadine	Lastacaft
alcaftadine	Lastacaft Once Daily Relief
ammonium chlor/phenylephrine/hcod/pyril/chlorphenir/pheninda	Hexatussin
aspirin/acetaminophen/diphenhydramine citrate	Pain Relief PM (w-aspirin)
aspirin/diphenhydramine citrate	Bayer PM
astemizole	Hismanal
azatadine maleate	Optimine
azelastine HCl	Astelin
azelastine HCl	Astepro
azelastine HCl	Astepro Allergy
azelastine HCl	Children's Astepro Allergy
azelastine HCl	Optivar
azelastine HCl	azelastine
azelastine HCl/fluticasone propionate	Dymista
azelastine HCl/fluticasone propionate	azelastine-fluticasone
azelastine/fluticasone/sodium chloride/sodium bicarbonate	Ticalast
bepotastine besilate	Bepreve
bepotastine besilate	bepotastine besilate
brompheniramine mal/pseudoephedrine HCl/dihydrocodeine bitar	J-COF DHC
brompheniramine maleate	BPM
brompheniramine maleate	Bidhist
brompheniramine maleate	BromSpiro
brompheniramine maleate	Bromax
brompheniramine maleate	Endafed
brompheniramine maleate	J-TAN PD
brompheniramine maleate	LoHist 12
brompheniramine maleate	Lodrane 12 Hour
brompheniramine maleate	Lodrane ER
brompheniramine maleate	ND-Stat
brompheniramine maleate	Oraminic li
brompheniramine maleate	Polytapp Allergy
brompheniramine maleate	Respa-BR
brompheniramine maleate	VaZol
brompheniramine maleate	brompheniramine maleate
brompheniramine maleate/acetaminophen	Staflex (bromphenira-acetamin)
brompheniramine maleate/codeine phosphate	Brovex CB
brompheniramine maleate/codeine phosphate	Brovex CBX
brompheniramine maleate/codeine phosphate	EndaCof AC
brompheniramine maleate/codeine phosphate	Nalex AC
brompheniramine maleate/diphenhydramine HCl	Ala-Hist
brompheniramine maleate/phenylephrine HCl	Alacol
brompheniramine maleate/phenylephrine HCl	Alenaze-D
brompheniramine maleate/phenylephrine HCl	Alenaze-D NR

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Generic Name	Brand Name
brompheniramine maleate/phenylephrine HCl	BPM PE
brompheniramine maleate/phenylephrine HCl	Brohist D
brompheniramine maleate/phenylephrine HCl	Bromax D
brompheniramine maleate/phenylephrine HCl	Bromfed
brompheniramine maleate/phenylephrine HCl	Bromfed PD
brompheniramine maleate/phenylephrine HCl	Bromfenex PE
brompheniramine maleate/phenylephrine HCl	Bromfenex PE Pediatric
brompheniramine maleate/phenylephrine HCl	BroveX PEB
brompheniramine maleate/phenylephrine HCl	Brovex PB
brompheniramine maleate/phenylephrine HCl	Cenhist
brompheniramine maleate/phenylephrine HCl	Child Triaminic Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Child Wal-Tap Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Children's Cold-Allergy (PE)
brompheniramine maleate/phenylephrine HCl	Children's Dibromm Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Cold and Allergy (bromphen-PE)
brompheniramine maleate/phenylephrine HCl	Decon-A
brompheniramine maleate/phenylephrine HCl	Dimaphen (PE)
brompheniramine maleate/phenylephrine HCl	Dimetapp Cold-Allergy (PE)
brompheniramine maleate/phenylephrine HCl	Entre-B
brompheniramine maleate/phenylephrine HCl	Glenmax PEB
brompheniramine maleate/phenylephrine HCl	Histex
brompheniramine maleate/phenylephrine HCl	J-Tan D
brompheniramine maleate/phenylephrine HCl	LoHist-PEB
brompheniramine maleate/phenylephrine HCl	Maxi-Tuss PE
brompheniramine maleate/phenylephrine HCl	Relhist BP
brompheniramine maleate/phenylephrine HCl	Respahist-II
brompheniramine maleate/phenylephrine HCl	Rhinabid
brompheniramine maleate/phenylephrine HCl	Rhinabid PD
brompheniramine maleate/phenylephrine HCl	Ru-Hist D
brompheniramine maleate/phenylephrine HCl	Rynex PE
brompheniramine maleate/phenylephrine HCl	Seradex-LA
brompheniramine maleate/phenylephrine HCl	Tanabid SR
brompheniramine maleate/phenylephrine HCl	V-Hist
brompheniramine maleate/phenylephrine HCl	VaZol-D
brompheniramine maleate/phenylephrine HCl	Vazobid
brompheniramine maleate/phenylephrine HCl	Vazobid-PD
brompheniramine maleate/phenylephrine HCl	Vazotab
brompheniramine maleate/phenylephrine HCl	Wal-Tap
brompheniramine maleate/phenylephrine HCl	Zotex-PE
brompheniramine maleate/phenylephrine HCl	brompheniramine-phenylephrine
brompheniramine maleate/phenylephrine HCl/carbetapentane cit	Seradex
brompheniramine maleate/phenylephrine HCl/carbetapentane cit	Trex brom (bromphen-pe-carbeta)
brompheniramine maleate/phenylephrine HCl/carbetapentane cit	V-Cof
brompheniramine maleate/phenylephrine HCl/carbetapentane cit	Vazotan
brompheniramine maleate/phenylephrine HCl/chlophedianol HCl	Trex brom
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Brovex PB C
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Brovex PB CX

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Generic Name	Brand Name
brompheniramine maleate/phenylephrine HCl/codeine phosphate	M-END PE
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Pluratuss
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Poly-Tussin AC
brompheniramine maleate/phenylephrine HCl/codeine phosphate	TL-Hist CD
brompheniramine maleate/phenylephrine HCl/dextromethorphan	7.5PEH-4BRM-15DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	AP-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Ala-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Alacol DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Altipres-B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	BPM PE DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Balacall DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Bio T Pres-B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Bromtuss DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	BroveX PEB DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Brovex PB DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Centuss DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Cold and Cough (PE)
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Cold and Cough DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Dibromm DM Cold-Cou
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Cold And Cough
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Cold and Cough DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Cold and Cough Elixir
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Dimaphen DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Dimetapp DM Cold-Cough (PE)
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Duravent-DPB
brompheniramine maleate/phenylephrine HCl/dextromethorphan	EndaCof - DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Glenmax PEB DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Glenmax PEB DM Forte
brompheniramine maleate/phenylephrine HCl/dextromethorphan	LoHist PEB DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	LoHist-DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Lortuss DM (bromphen-PE)
brompheniramine maleate/phenylephrine HCl/dextromethorphan	M-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Niva-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Phenylephrine Complex
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Presgen B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	RelCof DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Rynex DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	TL-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Tusdec-DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Tussi Pres-B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Wal-tap DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Y-Cof DMX
brompheniramine maleate/phenylephrine HCl/dextromethorphan	brompheniramin-phenylephrin-DM
brompheniramine maleate/phenylephrine HCl/dihydrocodeine bit	Centussin DHC
brompheniramine maleate/phenylephrine HCl/dihydrocodeine bit	EndaCof-DH
brompheniramine maleate/phenylephrine HCl/dihydrocodeine bit	Poly-Tussin DHC
brompheniramine maleate/phenylephrine HCl/dihydrocodeine bit	brompheniram-PE-dihydrocodeine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/phenylpropanolamine HCl	12 Hour Nasal Decongestant
brompheniramine maleate/phenylpropanolamine HCl	Alcomed Ca
brompheniramine maleate/phenylpropanolamine HCl	Allergy Elixir (PPA)
brompheniramine maleate/phenylpropanolamine HCl	Allergy and Cold
brompheniramine maleate/phenylpropanolamine HCl	Allergy-Cold 12 Hour
brompheniramine maleate/phenylpropanolamine HCl	Altatapp
brompheniramine maleate/phenylpropanolamine HCl	Altatapp Cold/Allergy
brompheniramine maleate/phenylpropanolamine HCl	Ampromal FC
brompheniramine maleate/phenylpropanolamine HCl	BPM-PPA
brompheniramine maleate/phenylpropanolamine HCl	Brom-Tapp
brompheniramine maleate/phenylpropanolamine HCl	Bromaline
brompheniramine maleate/phenylpropanolamine HCl	Bromaline Extentabs
brompheniramine maleate/phenylpropanolamine HCl	Bromanate
brompheniramine maleate/phenylpropanolamine HCl	Bromapp
brompheniramine maleate/phenylpropanolamine HCl	Bromatapp
brompheniramine maleate/phenylpropanolamine HCl	Bromatapp ER
brompheniramine maleate/phenylpropanolamine HCl	Bromatapp Extentabs
brompheniramine maleate/phenylpropanolamine HCl	Bromphen
brompheniramine maleate/phenylpropanolamine HCl	Bromphenyl
brompheniramine maleate/phenylpropanolamine HCl	Bromtapp
brompheniramine maleate/phenylpropanolamine HCl	Brotapp
brompheniramine maleate/phenylpropanolamine HCl	Children's Grape Allergy
brompheniramine maleate/phenylpropanolamine HCl	Cold And Allergy (PPA)
brompheniramine maleate/phenylpropanolamine HCl	Cold And Allergy Relief
brompheniramine maleate/phenylpropanolamine HCl	Cold and Allergy Relief (ppa)
brompheniramine maleate/phenylpropanolamine HCl	Cold-Allergy
brompheniramine maleate/phenylpropanolamine HCl	Cold-Allergy Relief
brompheniramine maleate/phenylpropanolamine HCl	Decongestant (PPA)
brompheniramine maleate/phenylpropanolamine HCl	Decongestant-Anthistamine
brompheniramine maleate/phenylpropanolamine HCl	Decongestant-Antihistamine
brompheniramine maleate/phenylpropanolamine HCl	Di-Bromm
brompheniramine maleate/phenylpropanolamine HCl	Di-Bromm Maximum Strength
brompheniramine maleate/phenylpropanolamine HCl	Dibrom Extentabs
brompheniramine maleate/phenylpropanolamine HCl	Dibromm
brompheniramine maleate/phenylpropanolamine HCl	Dibromm Extended Release
brompheniramine maleate/phenylpropanolamine HCl	Dimaphen
brompheniramine maleate/phenylpropanolamine HCl	Dimetapp (brompheniramine-PPA)
brompheniramine maleate/phenylpropanolamine HCl	Dimetapp Allergy
brompheniramine maleate/phenylpropanolamine HCl	Dimetapp Extentab
brompheniramine maleate/phenylpropanolamine HCl	Dyme-Tap TR
brompheniramine maleate/phenylpropanolamine HCl	E.N.T.
brompheniramine maleate/phenylpropanolamine HCl	Friallergia
brompheniramine maleate/phenylpropanolamine HCl	Gen-Tapp
brompheniramine maleate/phenylpropanolamine HCl	Genatap
brompheniramine maleate/phenylpropanolamine HCl	Gentabs
brompheniramine maleate/phenylpropanolamine HCl	Gentapp
brompheniramine maleate/phenylpropanolamine HCl	Grape Decongestant

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/phenylpropanolamine HCl	Grape Elixir
brompheniramine maleate/phenylpropanolamine HCl	Komatapp
brompheniramine maleate/phenylpropanolamine HCl	Lotapp
brompheniramine maleate/phenylpropanolamine HCl	Medi-Brom
brompheniramine maleate/phenylpropanolamine HCl	Myphetapp
brompheniramine maleate/phenylpropanolamine HCl	Myphetapp AF
brompheniramine maleate/phenylpropanolamine HCl	Nasal Decongestant
brompheniramine maleate/phenylpropanolamine HCl	Nasal Decongestant (PPA)
brompheniramine maleate/phenylpropanolamine HCl	Nasal Decongestant-Antihist
brompheniramine maleate/phenylpropanolamine HCl	Nu-Med Mastapp
brompheniramine maleate/phenylpropanolamine HCl	Polytapp
brompheniramine maleate/phenylpropanolamine HCl	Q-Tapp
brompheniramine maleate/phenylpropanolamine HCl	Siltapp
brompheniramine maleate/phenylpropanolamine HCl	Siltapp DAS
brompheniramine maleate/phenylpropanolamine HCl	Siltapp DS
brompheniramine maleate/phenylpropanolamine HCl	Siltapp-SF
brompheniramine maleate/phenylpropanolamine HCl	Valu-Tapp
brompheniramine maleate/phenylpropanolamine HCl	brompheniramine-PPA
brompheniramine maleate/pseudoephedrine HCl	40PSE-4BRM
brompheniramine maleate/pseudoephedrine HCl	AccuHist
brompheniramine maleate/pseudoephedrine HCl	Accuhist Pediatric
brompheniramine maleate/pseudoephedrine HCl	Allent
brompheniramine maleate/pseudoephedrine HCl	Andehist
brompheniramine maleate/pseudoephedrine HCl	Andehist NR
brompheniramine maleate/pseudoephedrine HCl	BPM Pseudo
brompheniramine maleate/pseudoephedrine HCl	Bidhist-D
brompheniramine maleate/pseudoephedrine HCl	Brofed
brompheniramine maleate/pseudoephedrine HCl	Bromadrine
brompheniramine maleate/pseudoephedrine HCl	Bromadrine PD
brompheniramine maleate/pseudoephedrine HCl	Bromaline
brompheniramine maleate/pseudoephedrine HCl	Bromanate
brompheniramine maleate/pseudoephedrine HCl	Bromaxefed RF
brompheniramine maleate/pseudoephedrine HCl	Bromdec
brompheniramine maleate/pseudoephedrine HCl	Bromfed
brompheniramine maleate/pseudoephedrine HCl	Bromfed PD
brompheniramine maleate/pseudoephedrine HCl	Bromfenex
brompheniramine maleate/pseudoephedrine HCl	Bromfenex PD
brompheniramine maleate/pseudoephedrine HCl	Bromhist
brompheniramine maleate/pseudoephedrine HCl	Bromhist-NR
brompheniramine maleate/pseudoephedrine HCl	Bromhistine-P
brompheniramine maleate/pseudoephedrine HCl	Bromhistine-PD
brompheniramine maleate/pseudoephedrine HCl	Bromtapp Cold-Allergy
brompheniramine maleate/pseudoephedrine HCl	Brotapp
brompheniramine maleate/pseudoephedrine HCl	BroveX PSB
brompheniramine maleate/pseudoephedrine HCl	BroveX PSE
brompheniramine maleate/pseudoephedrine HCl	Brovex SR
brompheniramine maleate/pseudoephedrine HCl	Cardec

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/pseudoephedrine HCl	Children's Wal-Tap
brompheniramine maleate/pseudoephedrine HCl	Childrens Cold-Allrgy (p-ephed)
brompheniramine maleate/pseudoephedrine HCl	Childs Cold-Allergy
brompheniramine maleate/pseudoephedrine HCl	Cold and Allergy (bpm-pse)
brompheniramine maleate/pseudoephedrine HCl	Cold-Allergy Dibromm
brompheniramine maleate/pseudoephedrine HCl	Dallergy-JR
brompheniramine maleate/pseudoephedrine HCl	Di Bromm Cold-Allergy
brompheniramine maleate/pseudoephedrine HCl	Dibromm
brompheniramine maleate/pseudoephedrine HCl	Dimaphen
brompheniramine maleate/pseudoephedrine HCl	Dimetapp (brompheniramine-PSE)
brompheniramine maleate/pseudoephedrine HCl	Drixoral
brompheniramine maleate/pseudoephedrine HCl	Elixir
brompheniramine maleate/pseudoephedrine HCl	Endafed
brompheniramine maleate/pseudoephedrine HCl	Friallergia
brompheniramine maleate/pseudoephedrine HCl	Histex SR
brompheniramine maleate/pseudoephedrine HCl	Iofed
brompheniramine maleate/pseudoephedrine HCl	Iofed PD
brompheniramine maleate/pseudoephedrine HCl	J-TAN D PD
brompheniramine maleate/pseudoephedrine HCl	LoHist 12D
brompheniramine maleate/pseudoephedrine HCl	LoHist-LQ
brompheniramine maleate/pseudoephedrine HCl	LoHist-PD
brompheniramine maleate/pseudoephedrine HCl	LoHist-PSB
brompheniramine maleate/pseudoephedrine HCl	Lodrane
brompheniramine maleate/pseudoephedrine HCl	Lodrane 24 D
brompheniramine maleate/pseudoephedrine HCl	Lodrane D
brompheniramine maleate/pseudoephedrine HCl	Lodrane LD
brompheniramine maleate/pseudoephedrine HCl	M-Hist
brompheniramine maleate/pseudoephedrine HCl	Nasal Decongest Antihistamine
brompheniramine maleate/pseudoephedrine HCl	Nasal Decongestant
brompheniramine maleate/pseudoephedrine HCl	Nasal Decongestant PD
brompheniramine maleate/pseudoephedrine HCl	PSE BPM
brompheniramine maleate/pseudoephedrine HCl	Pseubrom
brompheniramine maleate/pseudoephedrine HCl	Pseubrom-PD
brompheniramine maleate/pseudoephedrine HCl	Q-Tapp
brompheniramine maleate/pseudoephedrine HCl	Respahist
brompheniramine maleate/pseudoephedrine HCl	Rondec (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl	Rynex PSE
brompheniramine maleate/pseudoephedrine HCl	Sildec (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl	Sinuhist
brompheniramine maleate/pseudoephedrine HCl	TL-Hist PD
brompheniramine maleate/pseudoephedrine HCl	Touro A/H
brompheniramine maleate/pseudoephedrine HCl	Touro Allergy
brompheniramine maleate/pseudoephedrine HCl	Ultrabrom
brompheniramine maleate/pseudoephedrine HCl	Ultrabrom PD
brompheniramine maleate/pseudoephedrine HCl	Uni-Hist
brompheniramine maleate/pseudoephedrine HCl	Uni-Tex 120-10
brompheniramine maleate/pseudoephedrine HCl	Valu-Tapp

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/pseudoephedrine HCl	Wal-tap Cold and Allergy
brompheniramine maleate/pseudoephedrine HCl	brompheniramine-pseudoephedrin
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Atuss DA
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Dicel CD
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Y-Tuss
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	CPB WC
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	M-End WC
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Mar-Cof BP
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Mesehist WC
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Rydex
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	30PSE-3BRM-15DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	40PSE-4BRM-20DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	50PSE-3BRM-30DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	AccuHist PDX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Accuhist DM Pediatric
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	AllanHist PDX Infant
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Anaplex DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Andehist DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Andehist DM NR
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bio-Dtuss DMX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromadine-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromaline DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromanate DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromanate DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromatane DX

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromaxefed DM RF
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromdec DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromdex D
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Brometane DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromfed DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromhist PDX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromhist-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromophed DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromphen DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromphenex DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Brompheniramine
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromplex DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromtapp DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Brotapp DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	BroveX PSB DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	BroveX PSE DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Carbodex DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Carbodex DM (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Carbofed DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Cardec DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Children's Cold And Cough(PSE)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Children's Di Bromm DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Children's Elixir DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Cold-Allergy DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Coldec-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Cough and Cold DM (bpm-pse)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Dallergy DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Decon-Dm
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Deltuss DMX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Di Bromm Cold-Cough
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Di Bromm DM Cold-Cough
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Dibromm DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Dimaphen DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Dimetane-DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Dimetapp DM (PSE)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	EndaCof - DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	EndaCof-PD
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Friallergia DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Genebrom DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Histacol BD
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Histacol DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	LoHist-PSB-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Medi-Brom
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Medi-Brom Cold-Allergy DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Myphetane DX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Neo DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	P-Hist DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	PBM Allergy
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	PediaHist DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	ProHist DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Pse Brom
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Q-Tapp DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Resperal-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Robitussin Allergy-Cough
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Rondamine DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Rondamine DM (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Rondec DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Rondec-DM (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Sildec DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Sildec DM (brompheniramine)
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Tuss-Mine D.M.
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Uni-Hist DM Pediatric
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Uni-Hist PDX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Valu-Tapp DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Wal-tap DM Cold and Cough
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	brompheniramine-pseudoeph-DM
brompheniramine tannate	B-Vex
brompheniramine tannate	Brovex
brompheniramine tannate	Brovex CT
brompheniramine tannate	J-TAN
brompheniramine tannate	Lodrane XR
brompheniramine tannate	P-TEX

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
brompheniramine tannate	TanaCof XR
brompheniramine tannate	brompheniramine tannate
brompheniramine tannate/phenylephrine tannate	B-Vex D
brompheniramine tannate/phenylephrine tannate	Brom Tann - PE Tann
brompheniramine tannate/phenylephrine tannate	Bromaphedrine D
brompheniramine tannate/phenylephrine tannate	BroveX-D
brompheniramine tannate/phenylephrine tannate	Brovex ADT
brompheniramine tannate/phenylephrine tannate	C-Tan D
brompheniramine tannate/phenylephrine tannate	C-Tan D Plus
brompheniramine tannate/phenylephrine tannate	Entre-B
brompheniramine tannate/phenylephrine tannate	J-Tan D
brompheniramine tannate/phenylephrine tannate	Relhist
brompheniramine tannate/phenylephrine tannate	Tanabid
brompheniramine tannate/phenylephrine tannate	Tanabid DA
brompheniramine tannate/phenylephrine tannate	Vazobid (tannates)
brompheniramine tannate/phenylephrine tannate	Vazotab (tannate)
brompheniramine tannate/phenylephrine tannate	brompheniramine-PE tannates
brompheniramine, phenylephrine, and carbetapentane tannates	BetaTan
brompheniramine, phenylephrine, and carbetapentane tannates	Pulmari
brompheniramine, phenylephrine, and carbetapentane tannates	VAZOTan (tannate)
brompheniramine/pseudoeph - chlorphen/phenyleph/methscopolam	Sympak II
carbetapentane citrate/phenylephrine HCl/carbinoxamine	Aridex Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Fen-A-Cough
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Fenatuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Quad Tann
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Quad Tann Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Quad-Tuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Quadratuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Quadratuss Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	R-Tannamine Plus
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Rentamine
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Rentamine Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Rhinatate
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Ry-Tuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Ryna-P.E.C.
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Rynatuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Rynatuss Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tanatuss
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tetra Tannate Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tri-Tannate Plus
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tri-Tannate Plus Pediatric
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tuss-Tan
carbetapentane tannate/Ephed Tan/phenylephrine/chlorphenir	Tuss-Tan Pediatric
carbetapentane tannate/diphenhydramine tannate	D-Tann AT
carbetapentane tannate/diphenhydramine tannate	DYTAN-AT

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Generic Name	Brand Name
carbetapentane tannate/phenylephrine tannate/chlorphenir	Albatussin DH
carbetapentane tannate/phenylephrine tannate/chlorphenir	Albatussin LA
carbetapentane tannate/phenylephrine tannate/chlorphenir	Carbaphen 12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Carbaphen 12 Ped
carbetapentane tannate/phenylephrine tannate/chlorphenir	Exratuss
carbetapentane tannate/phenylephrine tannate/chlorphenir	Pentuss
carbetapentane tannate/phenylephrine tannate/chlorphenir	Rentamine-12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Ricotuss
carbetapentane tannate/phenylephrine tannate/chlorphenir	Tannate-12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Tannic-12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Tannihist-12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Trionate Pediatric
carbetapentane tannate/phenylephrine tannate/chlorphenir	Tussi-12
carbetapentane tannate/phenylephrine tannate/chlorphenir	Ultratuss 12 S
carbetapentane tannate/phenylephrine tannate/chlorphenir	Xiratuss
carbetapentane tannate/phenylephrine tannate/diphenhydramine	D-Tann CD
carbetapentane tannate/phenylephrine tannate/diphenhydramine	D-Tann CT
carbetapentane tannate/phenylephrine tannate/diphenhydramine	Dytan CD
carbetapentane tannate/phenylephrine tannate/diphenhydramine	Dytan-CS
carbetapentane tannate/phenylephrine tannate/diphenhydramine	UNI-TANN CS
carbetapentane tannate/phenylephrine tannate/diphenhydramine	diphenhydramine-PE-carbetaptan
carbetapentane tannate/phenylephrine tannate/pyrilamine	C-Tanna 12D
carbetapentane tannate/phenylephrine tannate/pyrilamine	TANNIHIST-12 D
carbetapentane tannate/phenylephrine tannate/pyrilamine	Tannate 12D S
carbetapentane tannate/phenylephrine tannate/pyrilamine	Tussi-12D S
carbetapentane tannate/phenylephrine tannate/pyrilamine	Tussi-12d
carbetapentane tannate/pyrilamine tannate	Pyrlex CB
carbinoxamine maleate	Arbinoxa
carbinoxamine maleate	Carbihist
carbinoxamine maleate	Carbinoxamine PD
carbinoxamine maleate	Carboxine
carbinoxamine maleate	Cordron NR
carbinoxamine maleate	Histex CT
carbinoxamine maleate	Histex IE
carbinoxamine maleate	Histex PD (carbinoxamine)
carbinoxamine maleate	Histuss
carbinoxamine maleate	Histuss PD
carbinoxamine maleate	Jay-Rx PD
carbinoxamine maleate	Karbinal ER
carbinoxamine maleate	Mintex CT
carbinoxamine maleate	Mintex PD
carbinoxamine maleate	PALGIC
carbinoxamine maleate	Pediatex
carbinoxamine maleate	Pediox
carbinoxamine maleate	RyVent
carbinoxamine maleate	carbinoxamine maleate
carbinoxamine maleate/carbinoxamine tannate	Histex PD 12

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
carbinoxamine maleate/carbinoxamine tannate	carbinoxamine maleate,tannate
carbinoxamine maleate/pseudoephedrine HCl	Andec
carbinoxamine maleate/pseudoephedrine HCl	Andec TR
carbinoxamine maleate/pseudoephedrine HCl	Andehist
carbinoxamine maleate/pseudoephedrine HCl	Andehist NR
carbinoxamine maleate/pseudoephedrine HCl	Biodec
carbinoxamine maleate/pseudoephedrine HCl	Bromdec
carbinoxamine maleate/pseudoephedrine HCl	Carbaxefed RF
carbinoxamine maleate/pseudoephedrine HCl	Carbic DS
carbinoxamine maleate/pseudoephedrine HCl	Carbic-D
carbinoxamine maleate/pseudoephedrine HCl	Carbinoxamine
carbinoxamine maleate/pseudoephedrine HCl	Carbinoxamine PSE
carbinoxamine maleate/pseudoephedrine HCl	Carbiset
carbinoxamine maleate/pseudoephedrine HCl	Carbodec
carbinoxamine maleate/pseudoephedrine HCl	Carbodec TR
carbinoxamine maleate/pseudoephedrine HCl	Carbofed
carbinoxamine maleate/pseudoephedrine HCl	Carboxine-PSE
carbinoxamine maleate/pseudoephedrine HCl	Cardec
carbinoxamine maleate/pseudoephedrine HCl	Cardec-S
carbinoxamine maleate/pseudoephedrine HCl	Coldec
carbinoxamine maleate/pseudoephedrine HCl	Coldec D
carbinoxamine maleate/pseudoephedrine HCl	Coldec DS
carbinoxamine maleate/pseudoephedrine HCl	Coldec-TR
carbinoxamine maleate/pseudoephedrine HCl	Cordron-D
carbinoxamine maleate/pseudoephedrine HCl	Cordron-D NR
carbinoxamine maleate/pseudoephedrine HCl	Cydec
carbinoxamine maleate/pseudoephedrine HCl	Dura-Ron
carbinoxamine maleate/pseudoephedrine HCl	Ex-Dec-TR
carbinoxamine maleate/pseudoephedrine HCl	Hydro-Tussin CBX
carbinoxamine maleate/pseudoephedrine HCl	Jay-Gic DS
carbinoxamine maleate/pseudoephedrine HCl	Jay-Rx
carbinoxamine maleate/pseudoephedrine HCl	Mintex PSE
carbinoxamine maleate/pseudoephedrine HCl	Palgic D
carbinoxamine maleate/pseudoephedrine HCl	Palgic DS
carbinoxamine maleate/pseudoephedrine HCl	Pediatex-D
carbinoxamine maleate/pseudoephedrine HCl	Pseudo Carb
carbinoxamine maleate/pseudoephedrine HCl	Rondamine
carbinoxamine maleate/pseudoephedrine HCl	Rondec
carbinoxamine maleate/pseudoephedrine HCl	Rondec-TR
carbinoxamine maleate/pseudoephedrine HCl	Sildec
carbinoxamine maleate/pseudoephedrine HCl	carbinoxamine-pseudoephedrine
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Andehist DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Andehist DM NR
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Balamine DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Biodec-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Bromdec DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbaxefed DM RF

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbinox-Pseud-DM RF
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbinoxamine Compound
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbodec DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbodec-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbodex DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Carbofed DM (carbinoxamine)
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Cardec-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Cordron-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Cordron-DM NR
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Cydec DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Decahist-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Dura-Ron DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Dynatuss
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Mintex DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	PSE CARBINOXAMINE DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	PSE Carb DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Pediatex-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Prodec-DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Pseudo Carb DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Pseudo-Car DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Rondamine DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Rondec DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Sildec DM
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Tussafed
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	Tussafed Pediatric
carbinoxamine maleate/pseudoephedrine HCl/dextromethorphan	carbinoxamine-pseudoephed-DM
carbinoxamine tannate	Pediatex 12
carbinoxamine tannate/pseudoephedrine tannate	Cordron-12 D
carbinoxamine tannate/pseudoephedrine tannate	Pediatex 12 D
carbinoxamine/pseudoephedrine/dextromethorphan tannates	CARB PSE 12 DM
carbinoxamine/pseudoephedrine/dextromethorphan tannates	Cordron-12 DM
carbinoxamine/pseudoephedrine/dextromethorphan tannates	Pediatex 12 DM
cetirizine HCl	24Hour Allergy
cetirizine HCl	All Day Allergy (cetirizine)
cetirizine HCl	All Day Allergy Relief(cetir)
cetirizine HCl	Aller-Tec
cetirizine HCl	Allergy Relief (cetirizine)
cetirizine HCl	Child Allergy Relf(cetirizine)
cetirizine HCl	Child's All Day Allergy(cetir)
cetirizine HCl	Children's Aller-Tec
cetirizine HCl	Children's Allergy Complete
cetirizine HCl	Children's Allergy(cetirizine)
cetirizine HCl	Children's Cetirizine
cetirizine HCl	Children's Wal-Zyr
cetirizine HCl	Children's Zyrtec Allergy
cetirizine HCl	Children's Zyrtec Hives Relief
cetirizine HCl	Quzyttir

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
cetirizine HCl	Wal-Zyr (cetirizine)
cetirizine HCl	Zerviate
cetirizine HCl	Zyrtec
cetirizine HCl	cetirizine
cetirizine HCl/pseudoephedrine HCl	All Day Allergy-D
cetirizine HCl/pseudoephedrine HCl	Aller-Tec D
cetirizine HCl/pseudoephedrine HCl	Allergy Complete-D
cetirizine HCl/pseudoephedrine HCl	Allergy D-12
cetirizine HCl/pseudoephedrine HCl	Allergy Relief-D (cetirizine)
cetirizine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D (cet)
cetirizine HCl/pseudoephedrine HCl	Allergy-D (cetirizine)
cetirizine HCl/pseudoephedrine HCl	Cetiri-D
cetirizine HCl/pseudoephedrine HCl	Wal-Zyr D
cetirizine HCl/pseudoephedrine HCl	Zyrtec-D
cetirizine HCl/pseudoephedrine HCl	cetirizine-pseudoephedrine
chlor-mal/pseudoephedrine HCl/atropine/hyosc sul/scopolamine	STAHIST (reformulated)
chlorcyclizine HCl	Ahist (chlorcyclizine)
chlorcyclizine HCl/codeine phosphate	Notuss-NX
chlorcyclizine HCl/codeine phosphate	Poly-Tussin
chlorcyclizine HCl/phenylephrine HCl	Dallergy (chlorcyclizine-PE)
chlorcyclizine HCl/phenylephrine HCl	Nasopen-CH
chlorcyclizine HCl/phenylephrine HCl/chlophedianol HCl	Vanacof-PE
chlorcyclizine HCl/pseudoephedrine HCl	Nasopen
chlorcyclizine HCl/pseudoephedrine HCl	Stahist AD
chlorcyclizine HCl/pseudoephedrine HCl/chlophedianol HCl	Biclora-D
chlorcyclizine HCl/pseudoephedrine HCl/codeine phosphate	Notuss-NXD
chlorcyclizine HCl/pseudoephedrine HCl/codeine phosphate	Poly-Tussin D
chlorcyclizine HCl/pseudoephedrine HCl/codeine phosphate	Statuss Green (codeine)
chlorcyclizine hydrochloride/chlophedianol hydrochloride	Biclora
chlorpheniram/phenyleph/dextromethorphan/acetaminophen/guaifn	Cold-Flu M-Symptom Day-Night
chlorpheniram/phenyleph/dextromethorphan/acetaminophen/guaifn	Tylenol Cold-Flu Severe Day-Nt
chlorpheniram/phenyleph/dextromethorphan/acetaminophen/guaifn	Ultra Caps
chlorpheniramin tan/phenylephrine tan/methylscopolamine nit	AH-Chew
chlorpheniramin tan/phenylephrine tan/methylscopolamine nit	Ah-Chew Ultra
chlorpheniramin tan/phenylephrine tan/methylscopolamine nit	DuraTan PE
chlorpheniramin tan/phenylephrine tan/methylscopolamine nit	Redur-PCM
chlorpheniramine mal/phenylephrine/d-methorphan Hb/aspirin	Alka-Seltzer Plus C/C(PE,DM)
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Blanex-A
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Chlorex-A
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Coldex-A SR
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Comhist
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Nalex-A
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	NoHist-A

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Phenyltoloxamine PE CPM
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	Rhinacon A
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	West-Decon M
chlorpheniramine mal/phenyltoloxamine cit/phenylephrine HCl	chlorphen-phenyltoloxamine-pe
chlorpheniramine mal/pseudoephedrine HCl/chlophedianol HCl	DryMax AF
chlorpheniramine maleate	Aller Ex
chlorpheniramine maleate	Aller-Chlor
chlorpheniramine maleate	Allergy (chlorpheniramine)
chlorpheniramine maleate	Allergy 4-Hour
chlorpheniramine maleate	Allergy Relief(chlorpheniramn)
chlorpheniramine maleate	Allergy-Time
chlorpheniramine maleate	Allerlief
chlorpheniramine maleate	C P M
chlorpheniramine maleate	CPM 12
chlorpheniramine maleate	Chlo-Amine
chlorpheniramine maleate	Chlor-AI Allergy
chlorpheniramine maleate	Chlor-Mal
chlorpheniramine maleate	Chlor-Phen SA
chlorpheniramine maleate	Chlor-Pheniton
chlorpheniramine maleate	Chlor-Tablet
chlorpheniramine maleate	Chlor-Trimeton
chlorpheniramine maleate	Chlor-Trimeton Allergy 12 hour
chlorpheniramine maleate	Chlor-Trimeton Allergy Repetab
chlorpheniramine maleate	Chlor-Trimeton Repetabs
chlorpheniramine maleate	Chlor-Tripolon
chlorpheniramine maleate	ChlorHist
chlorpheniramine maleate	ChlorTabs
chlorpheniramine maleate	Chlorphen SR
chlorpheniramine maleate	Diabetic Tussin
chlorpheniramine maleate	Diabetic Tussin Allergy Relief
chlorpheniramine maleate	ED Chlorped Jr
chlorpheniramine maleate	Ed-ChlorPed
chlorpheniramine maleate	Ed-Chlortan
chlorpheniramine maleate	Genallerate
chlorpheniramine maleate	Pharbechlor
chlorpheniramine maleate	Prohist-8
chlorpheniramine maleate	QDALL AR Once a Day
chlorpheniramine maleate	Ridramin
chlorpheniramine maleate	Synchlor A
chlorpheniramine maleate	Wal-Finate
chlorpheniramine maleate	chlorpheniramine maleate
chlorpheniramine maleate/atropine	Cophene-B
chlorpheniramine maleate/codeine phosphate	Codar AR
chlorpheniramine maleate/codeine phosphate	Cotab A
chlorpheniramine maleate/codeine phosphate	Cotab AX
chlorpheniramine maleate/codeine phosphate	EndaCof-C
chlorpheniramine maleate/codeine phosphate	Lexuss 210

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Generic Name	Brand Name
chlorpheniramine maleate/codeine phosphate	Notuss AC
chlorpheniramine maleate/codeine phosphate	TL-Hist CM
chlorpheniramine maleate/codeine phosphate	Tuxarin ER
chlorpheniramine maleate/codeine phosphate	Z-Tuss AC
chlorpheniramine maleate/codeine phosphate	Zodryl AC 25
chlorpheniramine maleate/codeine phosphate	Zodryl AC 30
chlorpheniramine maleate/codeine phosphate	Zodryl AC 35
chlorpheniramine maleate/codeine phosphate	Zodryl AC 40
chlorpheniramine maleate/codeine phosphate	Zodryl AC 50
chlorpheniramine maleate/codeine phosphate	Zodryl AC 60
chlorpheniramine maleate/codeine phosphate	Zodryl AC 80
chlorpheniramine maleate/codeine phosphate	chlorpheniramine-codeine
chlorpheniramine maleate/dextromethorphan HBr	AMBI 20DM-4CPM
chlorpheniramine maleate/dextromethorphan HBr	Added-Strength Cough
chlorpheniramine maleate/dextromethorphan HBr	Children's Cough-Cold Relief
chlorpheniramine maleate/dextromethorphan HBr	Chld Robitussin Night Cough DM
chlorpheniramine maleate/dextromethorphan HBr	Coricidin HBP Cough and Cold
chlorpheniramine maleate/dextromethorphan HBr	Cough Formula
chlorpheniramine maleate/dextromethorphan HBr	Cough Syrup
chlorpheniramine maleate/dextromethorphan HBr	Cough and Cold (chlorphen-DM)
chlorpheniramine maleate/dextromethorphan HBr	Cough and Cold BP
chlorpheniramine maleate/dextromethorphan HBr	Cough and Runny Nose
chlorpheniramine maleate/dextromethorphan HBr	Cough-Cold Relief HBP
chlorpheniramine maleate/dextromethorphan HBr	Decongestant
chlorpheniramine maleate/dextromethorphan HBr	Decongestant D
chlorpheniramine maleate/dextromethorphan HBr	Dimetapp Long-Acting (cpm-DM)
chlorpheniramine maleate/dextromethorphan HBr	Extra Strength Cough
chlorpheniramine maleate/dextromethorphan HBr	Extra Strength Cough Formula
chlorpheniramine maleate/dextromethorphan HBr	Maxi-Tuss DM(chlorpheniramine)
chlorpheniramine maleate/dextromethorphan HBr	Maxichlor DM
chlorpheniramine maleate/dextromethorphan HBr	Robitussin Cough and Cold
chlorpheniramine maleate/dextromethorphan HBr	Robitussin Long-Acting
chlorpheniramine maleate/dextromethorphan HBr	Robitussin Ped Cough-Cold LA
chlorpheniramine maleate/dextromethorphan HBr	Scot-Tussin DM
chlorpheniramine maleate/dextromethorphan HBr	Triacting Cough and Runny Nose
chlorpheniramine maleate/dextromethorphan HBr	Triacting Night Time
chlorpheniramine maleate/dextromethorphan HBr	Triaminic
chlorpheniramine maleate/dextromethorphan HBr	Vicks Children's NyQuil Cold-C
chlorpheniramine maleate/dextromethorphan HBr/guaifenesin	Allfen DMA
chlorpheniramine maleate/dextromethorphan/methylscopolamine	Extendryl DM
chlorpheniramine maleate/dextromethorphan/methylscopolamine	chlorpheniramine-DM-methscop
chlorpheniramine maleate/guaifenesin	Allfen A
chlorpheniramine maleate/methscopolamine nitrate	Aerohist
chlorpheniramine maleate/methscopolamine nitrate	AlleRx DF
chlorpheniramine maleate/methscopolamine nitrate	AlleRx DF 30
chlorpheniramine maleate/methscopolamine nitrate	Allergy DN II
chlorpheniramine maleate/methscopolamine nitrate	BIDNASE

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/methscopolamine nitrate	NoHist-EXT
chlorpheniramine maleate/methscopolamine nitrate	RelCof CPM
chlorpheniramine maleate/methscopolamine nitrate	RespiVent DF
chlorpheniramine maleate/methscopolamine nitrate	RespiVent DF 30
chlorpheniramine maleate/methscopolamine nitrate	Ryneze
chlorpheniramine maleate/phenylephrine HCl	ALERSULE
chlorpheniramine maleate/phenylephrine HCl	AMBI 10PEH-4CPM
chlorpheniramine maleate/phenylephrine HCl	AccuHist
chlorpheniramine maleate/phenylephrine HCl	Acta-Tabs PE
chlorpheniramine maleate/phenylephrine HCl	Actidom DA
chlorpheniramine maleate/phenylephrine HCl	Actifed Cold-Allergy
chlorpheniramine maleate/phenylephrine HCl	Allerfed Cold and Allergy
chlorpheniramine maleate/phenylephrine HCl	C-Phen
chlorpheniramine maleate/phenylephrine HCl	CERON
chlorpheniramine maleate/phenylephrine HCl	CERON Infant
chlorpheniramine maleate/phenylephrine HCl	CP DEC
chlorpheniramine maleate/phenylephrine HCl	CPM-PE
chlorpheniramine maleate/phenylephrine HCl	Cardec (phenylephrin-chlorphn)
chlorpheniramine maleate/phenylephrine HCl	Centergy
chlorpheniramine maleate/phenylephrine HCl	Child Dometuss-DA
chlorpheniramine maleate/phenylephrine HCl	Chlor-Mes Jr
chlorpheniramine maleate/phenylephrine HCl	Cold and Allergy
chlorpheniramine maleate/phenylephrine HCl	Cold and Allergy PE
chlorpheniramine maleate/phenylephrine HCl	Cold and Allergy Relief (cpm)
chlorpheniramine maleate/phenylephrine HCl	DEC-CHLORPHEN
chlorpheniramine maleate/phenylephrine HCl	Dallergy (chlorpheniramine-PE)
chlorpheniramine maleate/phenylephrine HCl	Dallergy-JR
chlorpheniramine maleate/phenylephrine HCl	Ed A-Hist
chlorpheniramine maleate/phenylephrine HCl	Ed A-Hist (New Dosing)
chlorpheniramine maleate/phenylephrine HCl	Ed Chlorped D
chlorpheniramine maleate/phenylephrine HCl	ExaPhen
chlorpheniramine maleate/phenylephrine HCl	Histadec
chlorpheniramine maleate/phenylephrine HCl	Histatab Plus
chlorpheniramine maleate/phenylephrine HCl	Histex SR
chlorpheniramine maleate/phenylephrine HCl	Histor-D
chlorpheniramine maleate/phenylephrine HCl	LoHist (PE-chlorpheniramine)
chlorpheniramine maleate/phenylephrine HCl	Maxichlor PEH
chlorpheniramine maleate/phenylephrine HCl	Med-Hist PL
chlorpheniramine maleate/phenylephrine HCl	Nasohist
chlorpheniramine maleate/phenylephrine HCl	NoHist
chlorpheniramine maleate/phenylephrine HCl	NoHist-LQ
chlorpheniramine maleate/phenylephrine HCl	Novahistine
chlorpheniramine maleate/phenylephrine HCl	Pd-Hist D
chlorpheniramine maleate/phenylephrine HCl	Phenabid
chlorpheniramine maleate/phenylephrine HCl	Phenagil
chlorpheniramine maleate/phenylephrine HCl	RONDEC (PE)
chlorpheniramine maleate/phenylephrine HCl	RONDEC (PE) Infant

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/phenylephrine HCl	Relera
chlorpheniramine maleate/phenylephrine HCl	Rescon-Jr
chlorpheniramine maleate/phenylephrine HCl	Ricobid NR
chlorpheniramine maleate/phenylephrine HCl	Rolatuss
chlorpheniramine maleate/phenylephrine HCl	Rondex
chlorpheniramine maleate/phenylephrine HCl	SILDEC-PE
chlorpheniramine maleate/phenylephrine HCl	Sinus and Allergy PE
chlorpheniramine maleate/phenylephrine HCl	Sinus-Allergy (phenylephrine)
chlorpheniramine maleate/phenylephrine HCl	Sonahist
chlorpheniramine maleate/phenylephrine HCl	Sudafed PE Sinus-Allergy
chlorpheniramine maleate/phenylephrine HCl	Suphedrine PE Cold and Allergy
chlorpheniramine maleate/phenylephrine HCl	Suphedrine PE Sinus andAllergy
chlorpheniramine maleate/phenylephrine HCl	TUSSANIL
chlorpheniramine maleate/phenylephrine HCl	Triaminic Cold- Allergy PE
chlorpheniramine maleate/phenylephrine HCl	Trigofen
chlorpheniramine maleate/phenylephrine HCl	Virdec
chlorpheniramine maleate/phenylephrine HCl	Wal-Phed PE Sinus and Allergy
chlorpheniramine maleate/phenylephrine HCl	chlorpheniramine-phenylephrine
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Carbaphen CH
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Carbaphen Ped CH
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	DryMax AF
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	ExaPhen CH
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Giltuss Allergy Plus(chlophed)
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Phenagil CH
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	CapCof
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	Endal CD (cpm-p.ephrn-codeine)
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	Maxi-Tuss CD
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	AMBI 10PEH-4CPM-20DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	AccuHist PDX
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Albatussin SR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Amerituss AD
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Antitussive Cough (DM)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Atuss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Atuss DR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Balamine DM (chlor-PE)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Bio-B Kids
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Bio-Rytuss
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Bronkids
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	C-Phen DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	CERON-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	CERON-DM Infant
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	CP DEC-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	CPM-PE-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Cardec DM (phenyleph-chlorphn)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Centergy DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Cerose-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Coldtuss-DR

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Generic Name	Brand Name
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Corfen-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	DEC-CHLORPHEN DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	DM-PE-Chlor
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	De-Chlor DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	De-Chlor DR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Dex PC
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Donatussin
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Donatussin DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	ED DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Ed A-Hist DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	EndaCof
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Father John's Medicine Plus
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Gencontuss
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Giltuss Allergy Plus (dm)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Histadec DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Maxichlor PEH DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Mintuss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Mintuss DR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Nasohist DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Neo DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	NeoTuss Plus
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	NoHist DMX
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	NoHist-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	NoHist-PDX
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Norel CS
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Norel DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	P Chlor DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	PE-Hist DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Pd-Cof
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Phenabid DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Poly-Tussin DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Quartuss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	RE DCP
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	RONDEC-DM (PE)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	RONDEC-DM (PE) Infant
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Relahist-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Reme Tussin DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Ricotuss
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Rondex-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Ru-Tuss A
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Rycontuss
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	SILDEC PE-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Sonahist DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Statuss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	TRI-DEX PE
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Tri-Vent DPC
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Trigofen DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Trital DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Trituss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Tuss-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Tussilan-CL
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Tussplex DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Uni-Tuss DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Virdec DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Z-Dex 12D
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Zoden DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Zotex-12D
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	aber-tuss DR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	chlorpheniramine-phenyleph-DM
chlorpheniramine maleate/phenylephrine HCl/ibuprofen	Advil Allergy-Congestion Rlf
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	AH-Chew
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	AH-Chew II
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	AeroKid
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Aerohist Plus
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	AlleRx PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Allergy DN PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	CPM 8-PE 20-MSD 1.25
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	CPM-PE-MSD
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Chlor-Mes
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Chlor-Mes D
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	D.A. Chewable
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	D.A. II
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	DENAZE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Dallery
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Dallery PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Dehistine
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	DriHist SR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Drize-R
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	DryMax
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Drysec
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Dura-Vent/DA
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Duradryl
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Duradryl JR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Duradryl SR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Durahist PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Duravent
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Duravent-DA
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Ex-Histine
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Extendryl
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Extendryl JR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Extendryl SR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Hista-Vent DA
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Histatab PH
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	NoHist-PE

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Nohist-Plus
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Nohist-Plus JR
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Norel SD
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	OMNIhist II LA
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Omnihist L.A.
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	PCM
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	PCM Allergy
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	PE HCL-CPM-MSN
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	PE-CPM-MSN
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Phenacon
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Phenydryl
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Phenylephrine CM
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Pre-hist-D
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	QV-Allergy
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	RE-Drylex Jr
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Ralix
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Relcof DN PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Relcof PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Rescon
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Rescon Biphasic
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Rescon-MX
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Scopohist
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Scopohist-PE
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	SymPak PDX AM-PM
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Triall
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	Vanex Forte-D
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	WE Allergy
chlorpheniramine maleate/phenylephrine HCl/methylscopolamn	chlorphen-phenyleph-methscop
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Alka-Seltzer Plus Cold (PE)
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief Plus
chlorpheniramine maleate/phenylpropanolamine HCl	12 Hour Relief (ppa-cl-phenir)
chlorpheniramine maleate/phenylpropanolamine HCl	A.R.M. (with PPA)
chlorpheniramine maleate/phenylpropanolamine HCl	Aler-Relleaf
chlorpheniramine maleate/phenylpropanolamine HCl	Allergy Relief (PPA)
chlorpheniramine maleate/phenylpropanolamine HCl	Allergy Relief Medicine
chlorpheniramine maleate/phenylpropanolamine HCl	Altaminic
chlorpheniramine maleate/phenylpropanolamine HCl	Chlornade
chlorpheniramine maleate/phenylpropanolamine HCl	Cold Capsule
chlorpheniramine maleate/phenylpropanolamine HCl	Cold Max
chlorpheniramine maleate/phenylpropanolamine HCl	Cold Syrup (chlorphen-PPA)
chlorpheniramine maleate/phenylpropanolamine HCl	Cold-Allergy
chlorpheniramine maleate/phenylpropanolamine HCl	Cold-Gest
chlorpheniramine maleate/phenylpropanolamine HCl	Contac
chlorpheniramine maleate/phenylpropanolamine HCl	Contac 12 Hour
chlorpheniramine maleate/phenylpropanolamine HCl	Decongestant (PPA-chlorphen)
chlorpheniramine maleate/phenylpropanolamine HCl	Decongestant Cold

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/phenylpropanolamine HCl	Demazin
chlorpheniramine maleate/phenylpropanolamine HCl	Drize
chlorpheniramine maleate/phenylpropanolamine HCl	Dura-Vent/A
chlorpheniramine maleate/phenylpropanolamine HCl	Genamin Cold
chlorpheniramine maleate/phenylpropanolamine HCl	Gencold
chlorpheniramine maleate/phenylpropanolamine HCl	Histade
chlorpheniramine maleate/phenylpropanolamine HCl	Mariminic
chlorpheniramine maleate/phenylpropanolamine HCl	Medamenic Colds/Allergies
chlorpheniramine maleate/phenylpropanolamine HCl	Nasal Decongest/Antihistaminic
chlorpheniramine maleate/phenylpropanolamine HCl	Or-Phen-Ade CR
chlorpheniramine maleate/phenylpropanolamine HCl	Oragest-TD
chlorpheniramine maleate/phenylpropanolamine HCl	Orange Cough Syrup
chlorpheniramine maleate/phenylpropanolamine HCl	Orange Nasal Decongestant
chlorpheniramine maleate/phenylpropanolamine HCl	Ordrine
chlorpheniramine maleate/phenylpropanolamine HCl	Ordrine SA
chlorpheniramine maleate/phenylpropanolamine HCl	Ornade
chlorpheniramine maleate/phenylpropanolamine HCl	Polyminic
chlorpheniramine maleate/phenylpropanolamine HCl	Propade
chlorpheniramine maleate/phenylpropanolamine HCl	Protac Cold
chlorpheniramine maleate/phenylpropanolamine HCl	Resaid ER
chlorpheniramine maleate/phenylpropanolamine HCl	Rescon (PPA)
chlorpheniramine maleate/phenylpropanolamine HCl	Rhinolar-EX
chlorpheniramine maleate/phenylpropanolamine HCl	Rhinolar-EX 12 Hour
chlorpheniramine maleate/phenylpropanolamine HCl	Silactin
chlorpheniramine maleate/phenylpropanolamine HCl	Silaminic
chlorpheniramine maleate/phenylpropanolamine HCl	T-Medic
chlorpheniramine maleate/phenylpropanolamine HCl	Teldrin
chlorpheniramine maleate/phenylpropanolamine HCl	Thera-Hist
chlorpheniramine maleate/phenylpropanolamine HCl	Time Release Cold
chlorpheniramine maleate/phenylpropanolamine HCl	Tri-A-Phen
chlorpheniramine maleate/phenylpropanolamine HCl	Tri-Acting
chlorpheniramine maleate/phenylpropanolamine HCl	Tri-Fedrine
chlorpheniramine maleate/phenylpropanolamine HCl	Tri-Nefrin
chlorpheniramine maleate/phenylpropanolamine HCl	Triac
chlorpheniramine maleate/phenylpropanolamine HCl	Triac Cold
chlorpheniramine maleate/phenylpropanolamine HCl	Triactin
chlorpheniramine maleate/phenylpropanolamine HCl	Triacting
chlorpheniramine maleate/phenylpropanolamine HCl	Triaminic
chlorpheniramine maleate/phenylpropanolamine HCl	Triogen
chlorpheniramine maleate/phenylpropanolamine HCl	Tristine
chlorpheniramine maleate/phenylpropanolamine HCl	Tussaminic
chlorpheniramine maleate/phenylpropanolamine HCl	Vanex Forte-R
chlorpheniramine maleate/phenylpropanolamine HCl	chlorpheniramine-phenylpropan
chlorpheniramine maleate/pseudoephedrine HCl	A.R.M
chlorpheniramine maleate/pseudoephedrine HCl	AMBI 60PSE-4CPM
chlorpheniramine maleate/pseudoephedrine HCl	AccuHist
chlorpheniramine maleate/pseudoephedrine HCl	Aller-Chlor Decongestant

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/pseudoephedrine HCl	Allergy(pseudoephed-chlorphen)
chlorpheniramine maleate/pseudoephedrine HCl	Allerscript
chlorpheniramine maleate/pseudoephedrine HCl	Allertabs
chlorpheniramine maleate/pseudoephedrine HCl	Amerifed
chlorpheniramine maleate/pseudoephedrine HCl	Anamine
chlorpheniramine maleate/pseudoephedrine HCl	Atrohist Pediatric
chlorpheniramine maleate/pseudoephedrine HCl	Biohist LA
chlorpheniramine maleate/pseudoephedrine HCl	Brexin LA
chlorpheniramine maleate/pseudoephedrine HCl	CPM PSE
chlorpheniramine maleate/pseudoephedrine HCl	CPM-PSE
chlorpheniramine maleate/pseudoephedrine HCl	Chlor-Pseudo SR
chlorpheniramine maleate/pseudoephedrine HCl	Chlor-Trimeton D
chlorpheniramine maleate/pseudoephedrine HCl	Chlor-Trimeton Decongestant
chlorpheniramine maleate/pseudoephedrine HCl	Chlorafed
chlorpheniramine maleate/pseudoephedrine HCl	Chlorafed H.S.
chlorpheniramine maleate/pseudoephedrine HCl	Chlordrine SR
chlorpheniramine maleate/pseudoephedrine HCl	Chlorfed SR
chlorpheniramine maleate/pseudoephedrine HCl	Chlorphedrine SR
chlorpheniramine maleate/pseudoephedrine HCl	Clorfed
chlorpheniramine maleate/pseudoephedrine HCl	Codimal L.A.
chlorpheniramine maleate/pseudoephedrine HCl	Codimal L.A. Half
chlorpheniramine maleate/pseudoephedrine HCl	Cold and Allergy (cpm-pse)
chlorpheniramine maleate/pseudoephedrine HCl	Cold and Allergy Suphedrine
chlorpheniramine maleate/pseudoephedrine HCl	Colfed-A
chlorpheniramine maleate/pseudoephedrine HCl	Cophene #2
chlorpheniramine maleate/pseudoephedrine HCl	Curaler
chlorpheniramine maleate/pseudoephedrine HCl	D-Amine-SR
chlorpheniramine maleate/pseudoephedrine HCl	Deconamine
chlorpheniramine maleate/pseudoephedrine HCl	Deconamine SR
chlorpheniramine maleate/pseudoephedrine HCl	Decongest SR
chlorpheniramine maleate/pseudoephedrine HCl	Decongestant Plus
chlorpheniramine maleate/pseudoephedrine HCl	Decongestant SR
chlorpheniramine maleate/pseudoephedrine HCl	Decongestine TR
chlorpheniramine maleate/pseudoephedrine HCl	Deconomed SR
chlorpheniramine maleate/pseudoephedrine HCl	Dicel
chlorpheniramine maleate/pseudoephedrine HCl	Duratuss DA
chlorpheniramine maleate/pseudoephedrine HCl	Dynafed-ER
chlorpheniramine maleate/pseudoephedrine HCl	Dynahist ER
chlorpheniramine maleate/pseudoephedrine HCl	Genaphed Plus
chlorpheniramine maleate/pseudoephedrine HCl	HISDEC
chlorpheniramine maleate/pseudoephedrine HCl	Hayfebrof
chlorpheniramine maleate/pseudoephedrine HCl	Histade
chlorpheniramine maleate/pseudoephedrine HCl	Histafed
chlorpheniramine maleate/pseudoephedrine HCl	Histalet
chlorpheniramine maleate/pseudoephedrine HCl	Histex
chlorpheniramine maleate/pseudoephedrine HCl	Klerist-D
chlorpheniramine maleate/pseudoephedrine HCl	Kronofed-A

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/pseudoephedrine HCl	Kronofed-A-Jr
chlorpheniramine maleate/pseudoephedrine HCl	LoHist - D
chlorpheniramine maleate/pseudoephedrine HCl	Maxichlor PSE
chlorpheniramine maleate/pseudoephedrine HCl	Med-Hist
chlorpheniramine maleate/pseudoephedrine HCl	Medi-Phedrine Plus
chlorpheniramine maleate/pseudoephedrine HCl	Mintex
chlorpheniramine maleate/pseudoephedrine HCl	N D Clear
chlorpheniramine maleate/pseudoephedrine HCl	Neutrahist
chlorpheniramine maleate/pseudoephedrine HCl	Novafed A
chlorpheniramine maleate/pseudoephedrine HCl	Omadryl DA
chlorpheniramine maleate/pseudoephedrine HCl	Orphedral Ad
chlorpheniramine maleate/pseudoephedrine HCl	PSE 15-CPM 2
chlorpheniramine maleate/pseudoephedrine HCl	PSE CPM
chlorpheniramine maleate/pseudoephedrine HCl	PediaCare Cold/Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Pediox
chlorpheniramine maleate/pseudoephedrine HCl	Pseudafen Plus
chlorpheniramine maleate/pseudoephedrine HCl	Pseudo Plus Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Pseudo-Chlor
chlorpheniramine maleate/pseudoephedrine HCl	Pseudoephedrine Cold/Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Pseudoephedrine Plus
chlorpheniramine maleate/pseudoephedrine HCl	Pseudoephedrine-60 Plus
chlorpheniramine maleate/pseudoephedrine HCl	Pseudogest Plus
chlorpheniramine maleate/pseudoephedrine HCl	QDALL
chlorpheniramine maleate/pseudoephedrine HCl	RE2+30
chlorpheniramine maleate/pseudoephedrine HCl	Rescon
chlorpheniramine maleate/pseudoephedrine HCl	Rescon Jr
chlorpheniramine maleate/pseudoephedrine HCl	Rescon-ED
chlorpheniramine maleate/pseudoephedrine HCl	Rinade-Bid
chlorpheniramine maleate/pseudoephedrine HCl	Ryna
chlorpheniramine maleate/pseudoephedrine HCl	Sanfed A
chlorpheniramine maleate/pseudoephedrine HCl	Sinus and Allergy(pseudoephed)
chlorpheniramine maleate/pseudoephedrine HCl	Su-Phed Plus
chlorpheniramine maleate/pseudoephedrine HCl	Su-Phedrin Plus
chlorpheniramine maleate/pseudoephedrine HCl	Su-Phedrine Plus
chlorpheniramine maleate/pseudoephedrine HCl	Suclor
chlorpheniramine maleate/pseudoephedrine HCl	SudaHist
chlorpheniramine maleate/pseudoephedrine HCl	Sudafed Cold-Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Sudafed Plus
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Plus
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Sinus and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Suphedrin Plus
chlorpheniramine maleate/pseudoephedrine HCl	Suphedrine Cold-Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Suphedrine Plus
chlorpheniramine maleate/pseudoephedrine HCl	Thera-Hist Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Tibamine LA
chlorpheniramine maleate/pseudoephedrine HCl	Time-Hist

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/pseudoephedrine HCl	Tri Acting Cold-Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Triactin
chlorpheniramine maleate/pseudoephedrine HCl	Triactin Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Triacting
chlorpheniramine maleate/pseudoephedrine HCl	Triacting Cold-Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Triacting Orange
chlorpheniramine maleate/pseudoephedrine HCl	Triaminic Cold/Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Triaminic Softchews
chlorpheniramine maleate/pseudoephedrine HCl	Wal-Finate-D
chlorpheniramine maleate/pseudoephedrine HCl	Wal-phed
chlorpheniramine maleate/pseudoephedrine HCl	chlorpheniramine-pseudoephed
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Tricode AR
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 25
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 30
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 35
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 40
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 50
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 60
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 80
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Allergy Sinus
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Multi-Symptom Cold
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Children's Advil Allergy Sinus
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	AMBI 60PSE-4CPM-20DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	AccuHist PDX
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Amerifed DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	CPM-PSE DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Child's Allergy Cold-Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children Night Time Cold-Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's Cough-Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's Nite Time
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's Nite-Time
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's Nite-Time Cold Med
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's NyQuil
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's NyQuil Cold/Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Children's Triaminic-D MS Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Childs Allergy
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Cold and Night Time Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Creomulsion Complete
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Creomulsion Pediatric
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Deltuss
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Dicel DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Esacor P
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Genedel
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	HDC DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Kidkare Cough/Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	M-End DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Maxichlor PSE DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Mesehist DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Neutrahist PDX
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Night Time Cold/Cough Formula
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Nite Time Cold Formula
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Nite Time Cold Medicine Childs
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pedi-Atric Cough/Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pedi-Atric Nightrest
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pedia Relief
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pedia Relief Cough-Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	PediaCare
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	PediaCare Cough/Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	PediaCare Night Rest
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pediatric Cough and Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pediatric Cough/Cold Formula
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Polyminic Night Time
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Rescon-DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Robitussin PM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Robitussin Pediatric Night
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Sudatuss DM
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Thera-Hist
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Thor
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triactin Cold-Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting Cold and Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting Cold-Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting Cough andSore Throat
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting M-Sym Cold/Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting Multi-Symptom
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triacting Night Time
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triaminic Cold and Cough
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Triaminic Cough-Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Tussafed
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Vicks Children's NyQuil
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Vicks Formula 44M Pediatric
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	chlorpheniramine-pseudoeph-DM
chlorpheniramine tannate	Ahist (chlorpheniramine)
chlorpheniramine tannate	ChlorTan
chlorpheniramine tannate	ED-CHLOR-TAN
chlorpheniramine tannate	Ed ChlorPed
chlorpheniramine tannate	Ervahist
chlorpheniramine tannate	MYCI CHLOR-TAN
chlorpheniramine tannate	Myci ChlorPed
chlorpheniramine tannate	P-Tann
chlorpheniramine tannate	PediaPhyl
chlorpheniramine tannate	PediaTan
chlorpheniramine tannate	Pediox-S
chlorpheniramine tannate	Ricobid-H

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine tannate	Tanahist-PD
chlorpheniramine tannate/carbetapentane tannate	C-Tanna 12
chlorpheniramine tannate/carbetapentane tannate	Rentamine-12
chlorpheniramine tannate/carbetapentane tannate	Ricotuss-H
chlorpheniramine tannate/carbetapentane tannate	Tana T-12
chlorpheniramine tannate/carbetapentane tannate	Tannate 12 S
chlorpheniramine tannate/carbetapentane tannate	Tannic-12
chlorpheniramine tannate/carbetapentane tannate	Tannic-12 S
chlorpheniramine tannate/carbetapentane tannate	Tannihist-12 RF
chlorpheniramine tannate/carbetapentane tannate	Trionate
chlorpheniramine tannate/carbetapentane tannate	Trionate NF
chlorpheniramine tannate/carbetapentane tannate	Tussi-12
chlorpheniramine tannate/carbetapentane tannate	Tussi-12 S
chlorpheniramine tannate/carbetapentane tannate	Tussizone-12 RF
chlorpheniramine tannate/carbetapentane tannate	Tustan 12S
chlorpheniramine tannate/carbetapentane tannate	chlorphen-carbetapent tannates
chlorpheniramine tannate/methscopolamine nitrate	Dexodryl
chlorpheniramine tannate/pseudoephedrine tannate	C-Phed Tannate
chlorpheniramine tannate/pseudoephedrine tannate	CP-Tannic
chlorpheniramine tannate/pseudoephedrine tannate	Dicel
chlorpheniramine tannate/pseudoephedrine tannate	Duotan
chlorpheniramine tannate/pseudoephedrine tannate	Durafed
chlorpheniramine tannate/pseudoephedrine tannate	Sudal 12 Tannate
chlorpheniramine tannate/pseudoephedrine tannate	Tana PSE
chlorpheniramine tannate/pseudoephedrine tannate	Tanafed
chlorpheniramine tannate/pseudoephedrine tannate	chlorphen-pseudoephed tannates
chlorpheniramine/dextromethorphan/acetaminophen/guaifenesin	Coricidin HBP Day-Night
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Broncopectol
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Chlordex GP
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Donatussin (with guaifenesin)
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	GenePatuss
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Genelan
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	LANZATUSS-N.F.
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Lartus
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Panatuss
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Qual-Tussin
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Quartuss
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	TUSSIGEN-N.F.
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Tussilan
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Tussilan-N.F.
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	Zotex-DM
chlorpheniramine/phenylephrine/dextromethorphan/guaifenesin	chlorpheniramine-PE-DM-guaifen
chlorpheniramine/phenylpropanolamine bitartrate/aspirin	Alka-Seltzer Plus Cold
chlorpheniramine/phenylpropanolamine bitartrate/aspirin	Effervescent Cold
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Allres DS
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Atuss DS
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	C-Phed DM Tannate

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Dicel DM
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Duotan DM
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Entre-S
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	T-Tanna DM
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Tana DM
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	Tanafed DM
chlorpheniramine/ppseudoephedrine/dextromethorphan tannates	chlorphen-pseudoeph-DM tannate
chlorpheniramn/pseudoephed/dextromethorph/guaifen/pot guaiaic	Lemotussin-DM
clemastine fumarate	Allergy Relief (clemastine)
clemastine fumarate	Allerhist (clemastine)
clemastine fumarate	Allerhist-1
clemastine fumarate	Anti-Hist 1
clemastine fumarate	Antihistamine 12hr
clemastine fumarate	Clemastine-1
clemastine fumarate	Contac 12 Hour Allergy
clemastine fumarate	Dailyhist-1
clemastine fumarate	Dailyhist-D 1
clemastine fumarate	Dayhist
clemastine fumarate	Dayhist Allergy
clemastine fumarate	Dayhist-1
clemastine fumarate	Tavist
clemastine fumarate	Tavist-1
clemastine fumarate	Vistamine
clemastine fumarate	clemastine
codeine phosphate/bromodiphenhydramine HCl	Ambenyl
codeine phosphate/bromodiphenhydramine HCl	Ambophen
codeine phosphate/bromodiphenhydramine HCl	Bromanyl
codeine phosphate/bromodiphenhydramine HCl	Bromotuss-Codeine
codeine phosphate/bromodiphenhydramine HCl	bromodiphenhydramine-codeine
codeine phosphate/pyrilamine maleate	Pro-Clear AC
codeine phosphate/pyrilamine maleate	Tricodene with Codeine
codeine polistirex/chlorpheniramine polistirex	Tuzistra XR
cyclizine HCl	Cyclivert
cyclizine HCl	Marezine
cyproheptadine HCl	Periactin
cyproheptadine HCl	cyproheptadine
desloratadine	Clarinox
desloratadine	desloratadine
desloratadine/pseudoephedrine sulfate	Clarinox-D 12 HOUR
desloratadine/pseudoephedrine sulfate	Clarinox-D 24 HOUR
dexbromphen-pseudoephedrine-dextromethorphan	M-End DMX
dexbrompheniramine maleate	Ala-Hist IR
dexbrompheniramine maleate	Isodex
dexbrompheniramine maleate	Isohist 2.0
dexbrompheniramine maleate	Pediavent
dexbrompheniramine maleate/chlophedianol HCl	Chlo Hist
dexbrompheniramine maleate/phenylephrine HCl	Ala-Hist PE

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dexbrompheniramine maleate/phenylephrine HCl	Alahist PE
dexbrompheniramine maleate/phenylephrine HCl	Dallergy (dexbrompheniramn-PE)
dexbrompheniramine maleate/phenylephrine HCl	dexbrompheniramine-phenyleph
dexbrompheniramine maleate/phenylephrine HCl/chlophedianol	Chlo Tuss (with phenylephrine)
dexbrompheniramine maleate/pseudoephedrine HCl	Acticon (dexbromph-pse)
dexbrompheniramine maleate/pseudoephedrine HCl	Alcomed 2-60
dexbrompheniramine maleate/pseudoephedrine HCl	Conex
dexbrompheniramine maleate/pseudoephedrine HCl	Disophrol
dexbrompheniramine maleate/pseudoephedrine HCl	Sudex
dexbrompheniramine maleate/pseudoephedrine HCl/chlophedianol	Chlo Tuss
dexbrompheniramine maleate/pseudoephedrine HCl/codeine phos	M-End Max D
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Antihist-Decongestant
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Antihistamine
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Cold
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Decongestant (PSE-dbr)
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Nasal Decongestant
dexbrompheniramine maleate/pseudoephedrine sulfate	12 Hour Relief
dexbrompheniramine maleate/pseudoephedrine sulfate	12-Hour Allergy-Cold Medicine
dexbrompheniramine maleate/pseudoephedrine sulfate	Aller Con
dexbrompheniramine maleate/pseudoephedrine sulfate	Allergy-Decongestant
dexbrompheniramine maleate/pseudoephedrine sulfate	Antihistamine Nasal Decongest
dexbrompheniramine maleate/pseudoephedrine sulfate	Cold-Allergy Relief
dexbrompheniramine maleate/pseudoephedrine sulfate	Decongestant
dexbrompheniramine maleate/pseudoephedrine sulfate	Dexaphen
dexbrompheniramine maleate/pseudoephedrine sulfate	Disobrom
dexbrompheniramine maleate/pseudoephedrine sulfate	Disophrol
dexbrompheniramine maleate/pseudoephedrine sulfate	Dixaphedrine
dexbrompheniramine maleate/pseudoephedrine sulfate	Drexophed
dexbrompheniramine maleate/pseudoephedrine sulfate	Drixomed
dexbrompheniramine maleate/pseudoephedrine sulfate	Drixoral Cold-Allergy
dexbrompheniramine maleate/pseudoephedrine sulfate	Pharmadrine
dexchlorpheniramine maleate	Dexchlor
dexchlorpheniramine maleate	Polaramine
dexchlorpheniramine maleate	Polaramine Repetab
dexchlorpheniramine maleate	Ryclora
dexchlorpheniramine maleate	dexchlorpheniramine maleate
dexchlorpheniramine maleate/phenylephrine HCl	NalDex
dexchlorpheniramine maleate/phenylephrine HCl	Rescon Jr
dexchlorpheniramine maleate/phenylephrine HCl	Rescon-MX
dexchlorpheniramine maleate/phenylephrine HCl	Rhinahist
dexchlorpheniramine maleate/phenylephrine HCl	Rymed (dexchlorpheniramine-PE)
dexchlorpheniramine maleate/phenylephrine HCl	Stahist (dexchlorpheniramine)
dexchlorpheniramine maleate/phenylephrine HCl/carb-pentane	Corzall-PE
dexchlorpheniramine maleate/phenylephrine HCl/codeine	Dexphen w-c
dexchlorpheniramine maleate/phenylephrine HCl/codeine	Pro-Red AC (w/ dexchlorphenir)
dexchlorpheniramine maleate/phenylephrine HCl/codeine	Vanacof CD
dexchlorpheniramine maleate/phenylephrine/dextromethorphan	Polytussin DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dexchlorpheniramine maleate/phenylephrine/dextromethorphan	WesTussin DM
dexchlorpheniramine maleate/pseudoephed/dextromethorphan HBr	Abatuss DMX
dexchlorpheniramine maleate/pseudoephed/dextromethorphan HBr	Deltuss DMX (dexchlorphen)
dexchlorpheniramine maleate/pseudoephedrine HCl	Deltuss DP
dexchlorpheniramine maleate/pseudoephedrine HCl	Hexafed
dexchlorpheniramine maleate/pseudoephedrine HCl	Rescon
dexchlorpheniramine maleate/pseudoephedrine sulfate/guaifen	Polaramine Expectorant
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Abanatuss PED
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Panatuss PED
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Panatuss PED Drops
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Vanacof
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	dexchlorphen-PSE-chlophedianol
dextromethorphan HBr/PPA bit/acetaminophen/chlorpheniramine	Alka-Seltzer Plus Flu/Body
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Child Plus Cough and RunnyNose
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Child's Non-ASA Cough,Run.Nose
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Child's Tylenol plusCough,RNos
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Children's Cough and RunnyNose
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Children's Mapap Cough-Sinus
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Coricidin HBP Flu
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Diabetic Tussin
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Diabetic Tusssin Cold/Flu
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Flu BP
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Flu HBP
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Flu Relief BP
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Maximum Strength Flu
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Triaminic
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Triaminic Flu-Cough-Fever
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Vicks 44 Custom Care
dextromethorphan HBr/acetaminophen/chlorpheniramine maleate	Vicks NyQuil Cold/Flu (cpm)
dextromethorphan HBr/acetaminophen/diphenhydramine HCl	Diabetic Tussin Night Time
dextromethorphan HBr/acetaminophen/doxylamine	All-Nite Cold-Flu
dextromethorphan HBr/acetaminophen/doxylamine	CLEAR COUGH PM
dextromethorphan HBr/acetaminophen/doxylamine	Cold-Flu Relief
dextromethorphan HBr/acetaminophen/doxylamine	Contac Cold-Flu Night
dextromethorphan HBr/acetaminophen/doxylamine	Coricidin HBP Cold-Multi Sympt
dextromethorphan HBr/acetaminophen/doxylamine	Cough and Sore Throat
dextromethorphan HBr/acetaminophen/doxylamine	Cough-Sore Throat Night
dextromethorphan HBr/acetaminophen/doxylamine	Delsym Cough-Cold
dextromethorphan HBr/acetaminophen/doxylamine	Delsym NightTime Multi-Symptom
dextromethorphan HBr/acetaminophen/doxylamine	Night Time
dextromethorphan HBr/acetaminophen/doxylamine	Night Time (Doxy-DM-acetam)
dextromethorphan HBr/acetaminophen/doxylamine	Night Time Cold
dextromethorphan HBr/acetaminophen/doxylamine	Night Time Cold and Flu Relief
dextromethorphan HBr/acetaminophen/doxylamine	Night Time Cold-Flu

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan HBr/acetaminophen/doxylamine	Night Time Cold-Flu Relief
dextromethorphan HBr/acetaminophen/doxylamine	Night Time Cough-Sore Throat
dextromethorphan HBr/acetaminophen/doxylamine	Nighttime Cold Medicine
dextromethorphan HBr/acetaminophen/doxylamine	Nighttime Cold-Flu
dextromethorphan HBr/acetaminophen/doxylamine	Nighttime Cold-Flu Relief
dextromethorphan HBr/acetaminophen/doxylamine	Nite Time Cold-Flu
dextromethorphan HBr/acetaminophen/doxylamine	Nite Time Cold-Flu Formula
dextromethorphan HBr/acetaminophen/doxylamine	Nite Time Cold-Flu Relief
dextromethorphan HBr/acetaminophen/doxylamine	Nite-Time
dextromethorphan HBr/acetaminophen/doxylamine	Nite-Time Cold-Flu
dextromethorphan HBr/acetaminophen/doxylamine	Nitetime Multi-Symptom
dextromethorphan HBr/acetaminophen/doxylamine	Pain Relief Cough-Nighttime
dextromethorphan HBr/acetaminophen/doxylamine	Robitussin Cold-Flu Night
dextromethorphan HBr/acetaminophen/doxylamine	Tylenol Cough, Sore Throat D/N
dextromethorphan HBr/acetaminophen/doxylamine	Tylenol Cough, Sore Throat NT
dextromethorphan HBr/acetaminophen/doxylamine	Vicks Nature Fusion Cold-Flu
dextromethorphan HBr/acetaminophen/doxylamine	Vicks NyQuil Cold/Flu (doxyl)
dextromethorphan HBr/acetaminophen/doxylamine	Vicks NyQuil Cold/Flu Liquicap
dextromethorphan HBr/acetaminophen/doxylamine	Vicks Nyquil Nighttime Relief
dextromethorphan HBr/doxylamine succinate	Daytime-Nighttime Cough
dextromethorphan HBr/doxylamine succinate	NightTime Cough
dextromethorphan HBr/doxylamine succinate	Nite Time Cough
dextromethorphan HBr/doxylamine succinate	Nitetime Cough
dextromethorphan HBr/doxylamine succinate	Robitussin Nighttime Cough DM
dextromethorphan HBr/doxylamine succinate	SafeTussin PM
dextromethorphan HBr/doxylamine succinate	Tussin Nighttime Cough DM
dextromethorphan HBr/doxylamine succinate	Vicks NyQuil Cough
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	DACEX-A
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	DMax
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	TRITUSS-A
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	Tricold Pediatric
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	X-Hist DM Pediatric
dextromethorphan HBr/phenylephrine HCl/carbinoxamine	XiraHistDM Pediatric
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Alahist CF
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Alahist DM
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Bionatuss DXP
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	BranTussin DM
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Dexall
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	G-P-Tuss DXP
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Panatuss DXP (New)
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Panatuss DXP Pediatric (New)
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Polytussin DM(dexbromphenirmn)
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Supress A
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	TUSSALL
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	TUSSALL-ER
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Y-Cof DM
dextromethorphan HBr/phenylephrine HCl/pheniramine	Theraflu Cold-Cough

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Alka-Seltzer Plus D-N (acetam)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Alka-Seltzer Plus Night
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Alka-Seltzer Plus Night-Time
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Alka-Seltzer Plus Sin-Allg-Cgh
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Cold Multi-Symptom NightTime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Cold and Flu Relief Plus (D/N)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Cold-Flu Relief, Day/Night
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Daytime-Nighttime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Daytime-Nighttime Cold-Flu
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Delsym Multi-Symptom
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Mucinex Fast-Max Nite (doxyl)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Nite Time Cold-Flu Relief (PE)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Severe Cold and Flu Nighttime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Severe Sinus Congest Alrgy-Cgh
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Tylenol Cold Max Night
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Tylenol Cold Multi-Sympt Night
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Vicks DayQuil-NyQuil
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Vicks DayQuil-NyQuil Cold-Flu
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Vicks NyQuil Severe Cold-Flu
dextromethorphan HBr/phenylpropanolamine HCl/ASA/chlorphenir	Alka-Seltzer Plus Cold/Cough
dextromethorphan HBr/phenylpropanolamine HCl/ASA/chlorphenir	Effervescent Cold Relief
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Balhistine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Boca-Hist DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Brom-Tapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Bromaline-DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Bromanate DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Bromatapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Bromtapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Brotapp-DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Cold And Allergy DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Cold And Cough DM (PPA)
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Decongestant, Antihistamine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Delhistine DM

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Dibromm DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Dimaphen DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Dimetapp Cold/Cough
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Dimetapp DM (PPA)
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	DuraHistine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Elixir DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Fenahistine Dm
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Friallergia DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Gentapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Grape Elixir DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Highland DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Histasil-DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Histine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Histinex DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Iohist DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Multi-Hist DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Myphetapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Nasal Decongest, Antihist DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	P-Hist
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Poly-DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Poly-Histine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Polytine DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Prohistine-DM

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Generic Name	Brand Name
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Q-Tapp DM AF
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Red Grape Flavored Elixir Dm
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Siltapp DM Cold and Cough
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Trihist-DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Uni-Multihist DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	Valu-Tapp DM
dextromethorphan HBr/phenylpropanolamine HCl/brompheniramine	brompheniramine-phenylprop-DM
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Cheracol Plus
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Cold Syrup Multi-Symptom
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Maricol
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Medamenic Multi Symptom Relief
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Minic Multi-Symptom
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Multi Symptom Relief
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Multiminic
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Polyminic Cold/Cough
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Thera-Histal
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Tri-Fedricol
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Triacting Multi-Symptom
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Triaminicol
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Tricodene Forte
dextromethorphan HBr/phenylpropanolamine HCl/chlorphenir	Tussaminic Multi-Symptom
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Athenol
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Cold Caplets Maximum Strength
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Cold Caps Severe Cold/Flu
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Complete Cold (PPA)
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Complete Cold Relief
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Complete Cold Reliever
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Complete Sx Cold Relief (PPA)
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Contac
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Contac Severe Cold/Flu
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Genacol
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Intense Cold Remedy (PPA)
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Severe Cold (with PPA)
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Severe Cold Formula
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Severe Cold and Flu (PPA)
dextromethorphan HBr/ppa/acetaminophen/chlorpheniramine	Severe Cold/Flu Max St
dextromethorphan HBr/ppa/acetaminophen/pyrilamine	Theracaps
dextromethorphan HBr/ppa/acetaminophen/pyrilamine	Theracof

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan HBr/pseudoephed/acetaminophen/dp-hydramine	Contac Day/Night Allergy/Sinus
dextromethorphan HBr/pseudoephed/acetaminophen/dp-hydramine	Contac Day/Night Cold/Flu
dextromethorphan HBr/pseudoephed/acetaminophen/dp-hydramine	Day and Night Cold
dextromethorphan HBr/pseudoephed/acetaminophen/dp-hydramine	Severe Cold and Flu
dextromethorphan HBr/pseudoephed/acetaminophen/dp-hydramine	Tylenol Flu Convenience Pack
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Non-Aspirin Cold
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen/pyril	Robitussin Night Relief
dextromethorphan HBr/salicylamide/chlorpheniramine/cafeine	Hi Potency Cold Relief
dextromethorphan polistirex/Pseudoephed Pl/chlorpheniramine	Atuss-12 DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	A-Dex DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Bromatan Plus
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	C-Phed DPD TANNATE
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Dur-Tann Forte
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	DuraTan FORTE
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Indamix DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	SuTan-DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tanacof-DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tanafed DMX
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tandur DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tannate DMP-DEX
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tannate PD-DM
dextromethorphan tannate/p-ephed tan/dexchlorpheniramine	Tri-Fed X
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	AllanVan-DM
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	Deconsal DM
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	SINADEX 12
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	Tannate-V-DM
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	ViraTan-DM
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	Viravan DM
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	Zotex-12
dextromethorphan tannate/phenylephrine tannate/Pyril Tan	pyrilamine-phenylephrin-DM tan
dextromethorphan tannate/phenylephrine tannate/br-phenir	Bromatan-DM
dextromethorphan tannate/phenylephrine tannate/br-phenir	Dur-Tann DM
dextromethorphan tannate/phenylephrine tannate/br-phenir	DuraTan DM
dextromethorphan tannate/phenylephrine tannate/br-phenir	Neo DM
dextromethorphan tannate/phenylephrine tannate/br-phenir	New Allergy DM
dextromethorphan tannate/phenylephrine tannate/br-phenir	brompheniramine-PE-DM tannates
dextromethorphan tannate/phenylephrine tannate/chlorphenir	Maxiphen ADT
dextromethorphan tannate/pseudoephedrine tannate/br-phenir	Anaplex DMX
dextromethorphan tannate/pseudoephedrine tannate/br-phenir	bromphen-pseudoeph-DM tannates
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Adlt Robitussin Cough-Cold-Flu

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Alka-Seltzer Plus Cold/CoughFm
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Alka-Seltzer Plus Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Child Triaminic MS Fever-Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Child's Non-ASA Multi-Sx Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Cold And Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Dimetapp Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Flu Relief
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Plus Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Tylenol Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Tylenol Plus Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Childrens Plus Multi-Symp Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Childrens Tylenol Plus MS Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Head Congestion Day/Nite
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Head Congestion Nighttime
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Max Day-Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Multi-Symptom (chlorphen)
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Multi-Symptom Day/Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Relief M/S Day/Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Comtrex Day/Night Cold-Cough
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Comtrex Nighttime Cold-Cough
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Daytime and Nighttime Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Deltuss-A
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Giltuss Multi-Symptom Cold-Flu

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Head Congestion Cold Relief
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Head Congestion Day-Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Multi-Symptom Cold (pe-cpm)
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Multi-Symptom Cold Night Time
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Night Time Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	PAIN RELIEF COLD PE NIGHTTIME
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Robitussin Cold, Cough, and Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Theraflu Nighttime Severe Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Tussin Cough-Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Tylenol Cold Head Cong Day-Nig
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Tylenol Cold Head Conges Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Tylenol Cold M-S Day/Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Tylenol Cold Multi-Sympt Night
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Day-Night Severe Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Flu Formula Daytime-Nighttime
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	HerbioMed Deep Cold-Flu Night
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Multi-Symptom Severe Cold-Nt
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Respa C and C
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Respa C and C IR
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Theraflu Day-Night Cold, Cough
dextromethorphan/phenylephrine/acetaminophen/diphenhydramine	Wal-Flu Day-Night Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/brompheniram	Child's Dimetapp Nighttime Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	666 Cough and Cold

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Alka-Seltzer Plus C/C (PSE)
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Alka-Seltzer Plus-D Sinus-Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Apdc Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Child Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Child Non-Aspirin Cough,Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Child Pain Relief Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Cold Plus Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Cold and Cough(cpm)
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Mapap Cold/Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Multi-Symptom Plus
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Non-Aspirin Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Non-Aspirin Plus
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Pain Relief-Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Tylenol Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Children's Tylenol Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Co-APAP
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Cold Care
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Cold Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Cold Relief Without Aspirin
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Cold Relief w/o Aspirin
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Cold Reliever

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cold Reliever Maximum Strength
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cold and Cough Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cold-Flu-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Combination Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Combination Symptom Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Complete Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Complete Cold Non-Aspirin
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Complete Cold and Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Complete Symptom Cold Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Comtrex
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Comtrex Day and Night
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Comtrex Multi-Symptom Cold/Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Comtrex Nighttime Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Contac
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough FM Decong
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough Mixture
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough Syrup M
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough and Cold Plus
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough and Cold Tab
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough, Cold and Flu Relief-M
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough-Cold and Flu Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Cough/Cold Childs APAP
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Ex-Prin Cold and Cough

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Ex-Prin Mult-Sym Child Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu Formula
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu Severe Cold-Congestion
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu and Cold Medicine (DM)
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu, Cold and Cough Medicine
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu, Cold, and Cough Medicine
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu, Cough and Cold Medicine
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu,Cold and Cough Ex-Strength
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu-Cold-Cough Night Time
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu-Cold-Cough Nighttime
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu-Cough-Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu-Cough-Cold Max Strength
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Flu/Cough/Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Formula M Cough,Cold and Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Genacol Max St Cold/Flu Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Kolephrin-DM
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Mapap Cold Formula
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Max Strength Complete
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Multi Symptom Child Cold/Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Multi Symptom Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Multi-Symptom Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Multi-Symptom Cold Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Multi-Symptom Cold Reliever

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Multi-Symptom Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Multi-Symptom Cold/Flu Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Multi-Symptom Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Multidexol M
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	NightTime Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Nighttime Flu,Cold, Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Nighttime Flu-Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non Aspirin Cold Complete Form
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non Aspirin Cold Plus Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non-Aspirin Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non-Aspirin Cold Formula
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non-Aspirin Cold Medicine
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Non-Aspirin Plus Cold, Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Pain Relief Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Pain Relief Plus Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Pain Reliever Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Pain Reliever Flu Child
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Robitussin Cough-Congestion
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Severe Cold and Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Severe Cold/Flu Maximum Str
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	St. Joseph Night Cold Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Symptomatic Cold Relief
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniramine	Symptomatic Cold Tablet

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Theraflu Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Theraflu MS Severe Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Theraflu Nighttime Formula
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Theraflu Severe Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Triacting
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Triacting Cold-Cough
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Triaminic Flu-Cough-Fever
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Tylenol Cold
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Tylenol Cold Day-Night Pack
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Tylenol Cold Severe Congest
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Tylenol Cold and Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Tylenol Cold-Flu Multi-Act D-N
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Ultra Caps
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Ultra Flu
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Ultrex
dextromethorphan/pseudoephedrine/acetaminophen/chlorpheniram	Vicks Formula 44M
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Alka-Seltzer Plus Cold-Flu
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Alka-Seltzer Plus Night Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	All-Nite Cold Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Children's Nite Time
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Contac Cold/Flu Nitetime
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Masquil
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	NIGHTTIME COLD FORMULA

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold Liquicap
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold Medicine
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold and Flu Relief
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold-Flu
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Cold-Flu Relief
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Colds Medicine
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night Time Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night-Time
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Night-Time Cold Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nighttime Cold Medicine
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nighttime Cold Mixture
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nighttime Liquid Softgel
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cold Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cold Medicine
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cold-Flu Relief(PSE)
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cough
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cough Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cough Medicine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Cough-Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time Multi-Symptom
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite Time-D Cold-Flu Relief
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nite-Time Cold Medicine
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nitetime
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nitetime Cold Formula
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nitetime Liquid
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nitetime Multi-Symptom
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	NyQuil
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	NyQuil D
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	NyQuil Hot Therapy
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	NyQuil Liquicaps
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Nycair
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Ri-Quel
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Robitussin Night-Time Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Theraflu Nighttime Severe Cold
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Tylenol Cold-Flu Severe Night
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Tylenol Flu Night Time
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Tylenol Nighttime Severe
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Vicks NyQuil
dextromethorphan/pseudoephedrine HCl/acetaminophen/doxylamine	Vicks NyQuil Liquicaps
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	Coldcough
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	Dihydro-CP
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	Hydro-Tussin DHC
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	Pancof

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	Tricof
dihydrocodeine bitart/chlorpheniramine mal/pseudoephedrine	UNI-COF
dimenhydrinate	Dmh-Syrup
dimenhydrinate	Dramamine
dimenhydrinate	Driminate
dimenhydrinate	Dymenate
dimenhydrinate	Motion Relief
dimenhydrinate	Motion Sickness
dimenhydrinate	Motion Sickness Relief
dimenhydrinate	Motion Sicktabs
dimenhydrinate	Trav-Tabs
dimenhydrinate	Travel Aid (dimenhydrinate)
dimenhydrinate	Travel Motion Sickness
dimenhydrinate	Travel Sickness
dimenhydrinate	Travel-Ease
dimenhydrinate	Travel-Eze
dimenhydrinate	Travel-Wise
dimenhydrinate	Traveltabs
dimenhydrinate	Triptone
dimenhydrinate	Wal-Dram
dimenhydrinate	dimenhydrinate
diphenhydramine HCl	Adult Allergy
diphenhydramine HCl	Aid To Sleep
diphenhydramine HCl	Aler-Cap
diphenhydramine HCl	Aler-Dryl
diphenhydramine HCl	Aler-Tab
diphenhydramine HCl	Alka-Seltzer Plus Allergy
diphenhydramine HCl	Aller Med
diphenhydramine HCl	Aller-G-Time
diphenhydramine HCl	Allergia-C
diphenhydramine HCl	Allergy
diphenhydramine HCl	Allergy (diphenhydramine)
diphenhydramine HCl	Allergy Capsule
diphenhydramine HCl	Allergy Cream (diphenhydramin)
diphenhydramine HCl	Allergy Elixir
diphenhydramine HCl	Allergy Medication
diphenhydramine HCl	Allergy Medicine
diphenhydramine HCl	Allergy Medicine Complete
diphenhydramine HCl	Allergy Relief(diphenhydramin)
diphenhydramine HCl	Altaryl
diphenhydramine HCl	Anti-Hist
diphenhydramine HCl	Anti-Itch (diphenhydramine)
diphenhydramine HCl	Anti-Itch Maximum Strength
diphenhydramine HCl	Antihist
diphenhydramine HCl	Antihistamine
diphenhydramine HCl	Antihistamine Allergy
diphenhydramine HCl	Antitussive Cough

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Generic Name	Brand Name
diphenhydramine HCl	Banophen
diphenhydramine HCl	Banophen Allergy
diphenhydramine HCl	Banophen Maximum Strength
diphenhydramine HCl	Beldin
diphenhydramine HCl	Belix
diphenhydramine HCl	Benadrilina
diphenhydramine HCl	Benadryl
diphenhydramine HCl	Benadryl Allergy
diphenhydramine HCl	Benadryl Allergy Quick Dissolv
diphenhydramine HCl	Benadryl Childrens Formula
diphenhydramine HCl	Benadryl Dye-Free Allergy
diphenhydramine HCl	Benadryl Fastmelt
diphenhydramine HCl	Benadryl Maximum Strength
diphenhydramine HCl	Benahist-10
diphenhydramine HCl	Benahist-50
diphenhydramine HCl	Bydramine
diphenhydramine HCl	Child Allergy Relief (diphen)
diphenhydramine HCl	Child's Benadryl Allergy
diphenhydramine HCl	Children's Allergy (diphenhyd)
diphenhydramine HCl	Children's Allergy Medicine
diphenhydramine HCl	Children's Antihistamine
diphenhydramine HCl	Children's Aurodryl Allergy
diphenhydramine HCl	Children's Benadryl Allergy
diphenhydramine HCl	Children's Complete Allergy
diphenhydramine HCl	Children's Diphenhydramine
diphenhydramine HCl	Children's Wal-Dryl Allergy
diphenhydramine HCl	Complete Allergy
diphenhydramine HCl	Complete Allergy Medicine
diphenhydramine HCl	Complete Allergy Relief
diphenhydramine HCl	Compoz
diphenhydramine HCl	Cough Control(diphenhydramine)
diphenhydramine HCl	Cough Suppressant
diphenhydramine HCl	DIPH-AL ALLERGY
diphenhydramine HCl	DPH-Elixir
diphenhydramine HCl	Derma-Pax
diphenhydramine HCl	Dermarest
diphenhydramine HCl	Diphedryl
diphenhydramine HCl	Diphedryl Allergy
diphenhydramine HCl	Diphedryl Allergy Relief
diphenhydramine HCl	Diphedryl Child
diphenhydramine HCl	Diphedryl Clear
diphenhydramine HCl	Diphen
diphenhydramine HCl	Diphen AF
diphenhydramine HCl	Diphendryl
diphenhydramine HCl	Diphenedryl
diphenhydramine HCl	Diphenhist
diphenhydramine HCl	Diphenhydramine Min-I-Jet

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Generic Name	Brand Name
diphenhydramine HCl	Diphenyl
diphenhydramine HCl	Dytuss
diphenhydramine HCl	EZ Nite Sleep
diphenhydramine HCl	Easy Sleep
diphenhydramine HCl	Genahist
diphenhydramine HCl	Geri-Dryl
diphenhydramine HCl	Hydramine
diphenhydramine HCl	Hydrosal
diphenhydramine HCl	Itch Relief (diphenhydramine)
diphenhydramine HCl	Komadryl
diphenhydramine HCl	Kosher Care Allergy Relief
diphenhydramine HCl	Lodryl
diphenhydramine HCl	M-Dryl
diphenhydramine HCl	Medi-Phedryl
diphenhydramine HCl	Medi-Sleep Max Strength
diphenhydramine HCl	Naramin
diphenhydramine HCl	Nervine
diphenhydramine HCl	Night-Time
diphenhydramine HCl	NightTime Sleep Aid (diphen)
diphenhydramine HCl	Nighttime Sleep
diphenhydramine HCl	Nighttime Allergy Relief
diphenhydramine HCl	Nitetime Sleep Aid
diphenhydramine HCl	Nordryl
diphenhydramine HCl	Nu-Med Alledryl
diphenhydramine HCl	Nuprin Allergy Relief
diphenhydramine HCl	Nyt-Time Sleep
diphenhydramine HCl	Nytol
diphenhydramine HCl	Orestyl
diphenhydramine HCl	Ormir
diphenhydramine HCl	PediaClear Cough
diphenhydramine HCl	Pediacare Allergy
diphenhydramine HCl	Pharbedryl
diphenhydramine HCl	Polydryl
diphenhydramine HCl	Polydryl Allergy
diphenhydramine HCl	Polydryl Cough
diphenhydramine HCl	ProHist
diphenhydramine HCl	Q-Dryl
diphenhydramine HCl	Quenalin
diphenhydramine HCl	Rest Simply Nighttime Sleep
diphenhydramine HCl	Restfully Sleep
diphenhydramine HCl	Sandryl
diphenhydramine HCl	Scot-Tussin Allergy Relief
diphenhydramine HCl	Siladryl
diphenhydramine HCl	Siladryl DAS
diphenhydramine HCl	Siladryl SA
diphenhydramine HCl	Silphen Cough
diphenhydramine HCl	Simply Allergy

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
diphenhydramine HCl	Simply Sleep
diphenhydramine HCl	Sleep
diphenhydramine HCl	Sleep Aid (diphenhydramine)
diphenhydramine HCl	Sleep Aid Liquid Gels Max St
diphenhydramine HCl	Sleep Aid Max Str (diphenhydr)
diphenhydramine HCl	Sleep Caps
diphenhydramine HCl	Sleep Formula
diphenhydramine HCl	Sleep II
diphenhydramine HCl	Sleep Safe
diphenhydramine HCl	Sleep Tablet (diphenhydramine)
diphenhydramine HCl	Sleep Tabs
diphenhydramine HCl	Sleep Time
diphenhydramine HCl	Sleep-Ettes D
diphenhydramine HCl	Sleep-Ex
diphenhydramine HCl	Sleep-Eze 3
diphenhydramine HCl	Sleep-Tabs
diphenhydramine HCl	Sleepgels
diphenhydramine HCl	Sleepinal Maximum Strength
diphenhydramine HCl	Sleeping
diphenhydramine HCl	Sleeptabs
diphenhydramine HCl	Sominex
diphenhydramine HCl	Sominex Formula 2
diphenhydramine HCl	Sominex Maximum Strength
diphenhydramine HCl	Somnicaps
diphenhydramine HCl	Theraflu Multi Symptom
diphenhydramine HCl	Total Allergy Medicine
diphenhydramine HCl	Triaminic Allergy
diphenhydramine HCl	Triaminic Cough/Runny Nose
diphenhydramine HCl	Trux-Adryl
diphenhydramine HCl	Tusstat
diphenhydramine HCl	Twilite
diphenhydramine HCl	Unisom (diphenhydramine)
diphenhydramine HCl	Unisom SleepGels
diphenhydramine HCl	Unisom SleepMelts
diphenhydramine HCl	Unisom SleepMinis
diphenhydramine HCl	Valu-Dryl
diphenhydramine HCl	Valu-Dryl Allergy
diphenhydramine HCl	Valu-Dryl Anti-Itch
diphenhydramine HCl	Valu-Dryl Child's Allergy
diphenhydramine HCl	Vanamine PD
diphenhydramine HCl	Vicks QlearQuil Nighttime Rlf
diphenhydramine HCl	Wal-Dryl (diphenhydramine)
diphenhydramine HCl	Wal-Dryl Allergy
diphenhydramine HCl	Wal-Sleep Z
diphenhydramine HCl	Wal-Som (diphenhydramine)
diphenhydramine HCl	Z-Sleep
diphenhydramine HCl	ZzzQuil

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
diphenhydramine HCl	diphenhydramine HCl
diphenhydramine HCl in 0.9 % sodium chloride	diphenhydramine-0.9 % sod.chlr
diphenhydramine HCl/calamine	Calamine with Antihistamine
diphenhydramine HCl/calamine	Calohist Antihistamine
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Adt Robitussin Cough-Cold-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Adult Robitussin Night M-S ClD
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy M-S Nighttime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy Plus Severe Sinus HA
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy Relief-Sinus Headache
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy Sinus Headache (PE)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy and Cold PE
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy-Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Benadryl Allergy-Sinus-Headach
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Benadryl Allergy/Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Benadryl Severe Allergy-Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Child Delsym Cough-Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Child Mucinex M-S Cold Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Child Tylenol Plus Cold-Allerg
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Children Dimetapp M-S Cold-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Children's Mucinex Night Time
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Childs Plus Cold and Allergy
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Cold and Flu Relief(diphen-pe)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Cough and Severe Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Delsym Cough-Cold NightTime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu Relief Therapy Nighttime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu Severe Cold-Night(diph-pe)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu and Sore Throat Relief
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu-Severe Cold-Cough Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Herbiomed Allergy Cold-Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Intense Cold and Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Nite Cold-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Nite Congest
diphenhydramine HCl/phenylephrine HCl/acetaminophen	OneTab Allergy and Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	OneTab Cold and Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Robitussin Cold-Flu Night (PE)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Allergy-Sinus Headache
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Cold (diphen-PE-acetam)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Cold Cough-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Cold PE
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Sudafed PE Nighttime Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Sudafed PE Severe Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Cold-Cough
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu ExpressMax Cold Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Flu-Sore Throat Warm
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Night Severe Cold-Cgh
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Nighttime PowerPod
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Warming Relief

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Tylenol Allergy M-S Nighttime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-Dryl Severe Allergy-Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-Flu Night Severe Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-Flu Severe Cold and Cough
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-Phed PE Nighttime Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-dryl Allergy-Sinus-Head
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Wal-phed PE Severe Cold
diphenhydramine HCl/phenylephrine HCl/codeine phosphate	Airacof
diphenhydramine HCl/phenylephrine HCl/codeine phosphate	Endal CD
diphenhydramine HCl/phenylephrine HCl/dextromethorphan HBr	Child Cold-Cough Day-Night
diphenhydramine HCl/phenylephrine HCl/dextromethorphan HBr	Child Triaminic Cold-Cough D/N
diphenhydramine HCl/phenylephrine/acetaminophen/guaifenesin	Cold and Cough Formula
diphenhydramine HCl/phenylephrine/acetaminophen/guaifenesin	Mucinex Sinus-Max D-N (diphen)
diphenhydramine HCl/phenylephrine/acetaminophen/guaifenesin	Sinus Relief Max Str Day-Night
diphenhydramine citrate	Children's Benadryl Allergy
diphenhydramine citrate	Restyn 76
diphenhydramine tannate	Ben-Tann
diphenhydramine tannate	DiphenMax
diphenhydramine tannate	Dytan
diphenhydramine tannate	UNI-TANN
diphenhydramine/brompheniramine/phenyleph/dextromethorphan	Children's Dimetapp Day Night
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Child Delsym Cough Plus Dy-Nt
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Child Mucinex M-S Cold Day-Nte
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Children's M-S Cold Day-Night
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Daytime-Cold Nighttime-Cld-Flu
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Delsym Cough Plus Day-Night
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Mucinex Fast-Max Day-Nite Cold
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Mucinex Fast-Max Day-Nite Cong
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Mucinex Fst-Mx Dy-Nt Cold(dph)
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Suphedrine PE Day-Night
diphenhydramine/phenylephrin/dextromethorph/acetaminophen/GG	Wal-Phed PE Day-Night
doxepin HCl	Prudoxin
doxepin HCl	Zonalon
doxepin HCl	doxepin
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Glentuss

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Lortuss DM
doxylamine succinate	Aldex AN
doxylamine succinate	Doxytex
doxylamine succinate	Fast Sleep
doxylamine succinate	Medi-Sleep
doxylamine succinate	Nighttime Sleep-Aid (doxylamn)
doxylamine succinate	Nite Time Sleep Aid
doxylamine succinate	Nitetime Sleep-Aid
doxylamine succinate	Sleep Aid (doxylamine)
doxylamine succinate	Somnised
doxylamine succinate	Ultra Sleep (doxylamine succ)
doxylamine succinate	Unisom (doxylamine)
doxylamine succinate	Wal-Som (doxylamine)
doxylamine succinate	doxylamine succinate
doxylamine succinate/dextromethorphan HBr/guaifenesin	Tussin DM Day-Night
doxylamine succinate/dextromethorphan/acetaminophen/guaifen	Coricidin HBP Max Cold-Flu D-N
doxylamine succinate/phenylephrine HCl	Poly Hist Forte
doxylamine succinate/phenylephrine HCl	Poly Hist Forte (doxylamine)
doxylamine succinate/phenylephrine HCl	doxylamine-phenylephrine
doxylamine succinate/phenylephrine/dextromethorphan HBr/ASA	Alka-Seltzer Plus Day-Night
doxylamine succinate/phenylephrine/dextromethorphan HBr/ASA	Alka-Seltzer Plus Night (asa)
doxylamine succinate/pseudoephedrine HCl	Lortuss LQ
doxylamine succinate/pyridoxine HCl (vitamin B6)	Bonjesta
doxylamine succinate/pyridoxine HCl (vitamin B6)	Diclegis
doxylamine succinate/pyridoxine HCl (vitamin B6)	doxylamine-pyridoxine (vit B6)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Alka-Seltzer Plus Cold Day-Nt
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Day-Cold Night-Cold-Flu(doxyl)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Day-Nite Severe Cold-Flu
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Mucinex Fast-Max Day-Nt(doxyl)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Mucinex Sinus-Max Dy-Nt (dxyl)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Severe Cold and Flu(Day/Night)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Tylenol Cold-Flu-Cough Dy-Nt
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Vicks DayQuil-NyQuil Severe
emedastine difumarate	Emadine
epinastine HCl	Elestat
epinastine HCl	epinastine
fexofenadine HCl	Allegra
fexofenadine HCl	Allegra Allergy
fexofenadine HCl	Allegra ODT
fexofenadine HCl	Aller-Fex
fexofenadine HCl	Aller-ease
fexofenadine HCl	Allergy Relief (fexofenadine)
fexofenadine HCl	Children's Allegra Allergy
fexofenadine HCl	Children's Allergy Relief(fex)
fexofenadine HCl	Children's Wal-Fex
fexofenadine HCl	Mucinex Allergy
fexofenadine HCl	Wal-Fex Allergy

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
fexofenadine HCl	fexofenadine
fexofenadine HCl/pseudoephedrine HCl	24HR Allergy-Congestion Relief
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 24 Hour
fexofenadine HCl/pseudoephedrine HCl	Allergy Relief D
fexofenadine HCl/pseudoephedrine HCl	Allergy Relief-D(fexofenadine)
fexofenadine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D(fexo)
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 24 Hour
fexofenadine HCl/pseudoephedrine HCl	fexofenadine-pseudoephedrine
guaifen/pot guaiaco/d-methorphan/phenylprop/p-ephedrine/cpm	Lemotussin DM
guaifenesin/dextromethorphan HBr/brompheniramine	Trispec SFX
guaifenesin/dextromethorphan HBr/brompheniramine	Tussi Pres-B (guaif-dm-bromph)
guaifenesin/dextromethorphan HBr/phenylephrine/br-phenir	AccuHist PDX
guaifenesin/dextromethorphan HBr/phenylephrine/br-phenir	AllanHist PDX
guaifenesin/dextromethorphan HBr/phenylephrine/br-phenir	Bromhist-PDX
guaifenesin/dextromethorphan HBr/phenylephrine/br-phenir	Uni-Hist PDX
guaifenesin/dextromethorphan HBr/phenylephrine/pyrilamine	Phenydex
guaifenesin/dextromethorphan HBr/phenyltoloxamine	Nortuss
guaifenesin/dextromethorphan HBr/pseudoephedrine/chlorphenir	NeoTuss-D (chlorpheniramine)
guaifenesin/dextromethorphan/chlorpheniramine/sodium citrate	Tussi-Phen
guaifenesin/dextromethorphan/phenylephrine/dexchlorpheniram	Panatuss DX
guaifenesin/dextromethorphan/phenylpropanol/brompheniramine	AccuTuss DM
guaifenesin/dextromethorphan/phenylpropanolamine/pyrilamine	Phenydex
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	Accuhist DM
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	Bromhist-DM
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	Histacol DM
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	Nortedril
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	PediaHist DM
guaifenesin/dextromethorphan/pseudoephedrine/brompheniramine	Uni-Hist DM
guaifenesin/dextromethorphan/pseudoephedrine/dexbrompheniram	Deka
guaifenesin/ephedrine/chlorpheniramine/hydriodic acid	Bronko Tuss
guaifenesin/hydrocodone bitartrate/brompheniramine	Tusnel-HC
guaifenesin/phenylephrine HCl/brompheniramine	Decon-G
guaifenesin/phenylephrine HCl/chlor-mal/methylscopolamn	SymPak AM-PM
guaifenesin/phenylephrine HCl/chlorpheniramine	Despec
guaifenesin/phenylephrine HCl/chlorpheniramine	Donatussin Pediatric
guaifenesin/phenylephrine HCl/chlorpheniramine	P Chlor
guaifenesin/phenylephrine HCl/chlorpheniramine	Panatuss

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Generic Name	Brand Name
guaifenesin/phenylephrine HCl/chlorpheniramine	Qual-Tussin Pediatric
guaifenesin/phenylephrine HCl/chlorpheniramine	Santuss Pediatric
guaifenesin/phenylephrine tannate/pyrilamine	A-Tan 12X
guaifenesin/phenylephrine tannate/pyrilamine	RYNA-12X
guaifenesin/phenylephrine/phenylprop/hydrocodone/pheniramine	S-T Forte
guaifenesin/phenylpropanolamine HCl/acetaminophn/chlorphenir	Gelpirin-CCF
guaifenesin/phenylpropanolamine HCl/hydrocodone/pyril/phenir	Triaminic DH Expectorant
guaifenesin/potassium guaiacolsulf/dextromethorphan/pyrilamn	Genexpect-SF
guaifenesin/potassium guaiacolsulf/dextromethorphan/pyrilamn	Trispec-SF
guaifenesin/pseudoephedrine HCl/chlorpheniramine	Lemohist Plus
hydrocodone bit/chlorpheniramine/pseudoephedrine/guaifenesin	DroTuss
hydrocodone bit/chlorpheniramine/pseudoephedrine/guaifenesin	Z-Tuss 2
hydrocodone bit/chlorpheniramine/pseudoephedrine/guaifenesin	Zhist
hydrocodone bit/chlorpheniramine/pseudoephedrine/guaifenesin	Ztuss Expectorant
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Anaplex HD
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Bromcomp HC
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Bromphenex HD
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Bromplex HD
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Brovex HC
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	Drocon-CS
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	EndaCof - HC
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	HPR END
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	J-Tan D HC
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	M-End
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	PSE BPM HD
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	VisveX HC
hydrocodone bitart/brompheniramine mal/pseudoephedrine HCl	hydrocodone-bromphen-pseudoeph
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	A-G Tussin
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Atuss HD
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	C-Cof HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Coldcough HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Coldtuss
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Cordon-HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Detuss
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Genecof-HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	HYDROCOF-HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Histinex PV
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Hycofed
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Hydro-Tussin HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Hydron PSC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Hyphed
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Jaycof-HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	KG-Tussin
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	M-End (with chlorpheniramine)
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Notuss
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Notuss-Forte
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	P-V Tussin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Pancof HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Pediatex HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Q-V Tussin
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Tuss-PV
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Tussend
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Tussin-V
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	WellTuss HC
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Zutripro
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	hydrocodone-cpm-pseudoephed
hydrocodone bitartrate/carbinoxamine mal/pseudoephedrine HCl	Histex HC
hydrocodone bitartrate/carbinoxamine mal/pseudoephedrine HCl	Histuss HC
hydrocodone bitartrate/carbinoxamine mal/pseudoephedrine HCl	Mintex HC
hydrocodone bitartrate/carbinoxamine mal/pseudoephedrine HCl	Tri-Vent HC
hydrocodone bitartrate/carbinoxamine mal/pseudoephedrine HCl	hydrocodone-carbinox-pseudoep
hydrocodone bitartrate/chlorpheniramine maleate	S-T Forte 2
hydrocodone bitartrate/chlorpheniramine maleate	Vituz
hydrocodone polistirex/chlorpheniramine polistirex	TussiCaps
hydrocodone polistirex/chlorpheniramine polistirex	Tussionex Pennkinetic ER
hydrocodone polistirex/chlorpheniramine polistirex	hydrocodone-chlorpheniramine
hydrocodone tannate/chlorpheniramine tannate	HyTan
hydrocodone tannate/chlorpheniramine tannate	Novasus
hydroxyzine HCl	ANX
hydroxyzine HCl	Atarax
hydroxyzine HCl	Hyzine
hydroxyzine HCl	Neucalm
hydroxyzine HCl	Rezine
hydroxyzine HCl	Vistacot
hydroxyzine HCl	Vistaril IM (HCl salt)
hydroxyzine HCl	Vistazine
hydroxyzine HCl	hydroxyzine HCl
hydroxyzine pamoate	Vistaril
hydroxyzine pamoate	hydroxyzine pamoate
ibuprofen/diphenhydramine HCl	Advil PM Liqui-Gels
ibuprofen/diphenhydramine HCl	Ibuprofen PM
ibuprofen/diphenhydramine HCl	ibuprofen-diphenhydramine HCl
ibuprofen/diphenhydramine citrate	Advil PM
ibuprofen/diphenhydramine citrate	Ibuprofen PM
ibuprofen/diphenhydramine citrate	Motrin PM
ibuprofen/diphenhydramine citrate	ibuprofen-diphenhydramine cit
ketotifen fumarate	Alaway
ketotifen fumarate	Allergy Eye (ketotifen)
ketotifen fumarate	Antihistamine Eye Drops
ketotifen fumarate	Children's Alaway
ketotifen fumarate	Eye Itch Relief
ketotifen fumarate	Itchy Eye Drops
ketotifen fumarate	Refresh Eye Itch Relief
ketotifen fumarate	Wal-Zyr (ketotifen)

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Generic Name	Brand Name
ketotifen fumarate	Zaditor
ketotifen fumarate	Zyrtec Itchy Eye Drops (keto)
ketotifen fumarate	ketotifen fumarate
levocabastine HCl	Livostin
levocetirizine dihydrochloride	24HR Allergy Relief
levocetirizine dihydrochloride	Allergy Relief (levocetirizin)
levocetirizine dihydrochloride	Xyzal
levocetirizine dihydrochloride	levocetirizine
loratadine	Alavert
loratadine	Alavert Children's Allergy
loratadine	Allerclear
loratadine	Allergy Relief (loratadine)
loratadine	Children's Allergy Relief(lor)
loratadine	Children's Claritin
loratadine	Children's Loratadine
loratadine	Claritin
loratadine	Claritin Liqui-Gel
loratadine	Claritin RediTabs
loratadine	Loradamed
loratadine	Non-Drowsy Allergy
loratadine	Nuprin Allergy Relief
loratadine	Tavist ND
loratadine	Vicks QlearQuil Allergy
loratadine	Wal-itin
loratadine	Wal-itin Aller-Melts
loratadine	Wal-vert
loratadine	loratadine
loratadine/pseudoephedrine sulfate	Alavert D-12 Allergy-Sinus
loratadine/pseudoephedrine sulfate	AllerClear D-12hr
loratadine/pseudoephedrine sulfate	AllerClear D-24hr
loratadine/pseudoephedrine sulfate	Allergy Relief D-24hr
loratadine/pseudoephedrine sulfate	Allergy Relief D12
loratadine/pseudoephedrine sulfate	Allergy Relief,Nasal Decongest
loratadine/pseudoephedrine sulfate	Allergy Relief-D (loratadine)
loratadine/pseudoephedrine sulfate	Allergy and Congestion Relief
loratadine/pseudoephedrine sulfate	Allergy-Congestion Relief-D
loratadine/pseudoephedrine sulfate	Claritin-D 12 Hour
loratadine/pseudoephedrine sulfate	Claritin-D 24 Hour
loratadine/pseudoephedrine sulfate	Clear-Atadine-D
loratadine/pseudoephedrine sulfate	Lorata-D
loratadine/pseudoephedrine sulfate	Loratadine-D
loratadine/pseudoephedrine sulfate	Wal-Itin D 12 Hour
loratadine/pseudoephedrine sulfate	Wal-itin D
loratadine/pseudoephedrine sulfate	lorata-dine D
loratadine/pseudoephedrine sulfate	loratadine-pseudoephedrine
magnesium salicylate/acetaminophen/phenyltoloxamine/caffeine	Cafgesic Forte
magnesium salicylate/acetaminophen/phenyltoloxamine/caffeine	Combiflex ES

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
magnesium salicylate/acetaminophen/phenyltoloxamine/caffeine	Durabac Forte
meclizine HCl	Ambizine
meclizine HCl	Antivert
meclizine HCl	Bonine
meclizine HCl	D-Vert
meclizine HCl	D-Vert 12.5
meclizine HCl	Dramamine (meclizine)
meclizine HCl	Dramamine II
meclizine HCl	Dramamine Less Drowsy
meclizine HCl	Meclicot
meclizine HCl	Medi-Meclizine
meclizine HCl	Medivert
meclizine HCl	Meni-D
meclizine HCl	Motion Relief (meclizine)
meclizine HCl	Motion Sickness (meclizine)
meclizine HCl	Motion Sickness II
meclizine HCl	Motion Sickness Relief II
meclizine HCl	Motion Sickness Relief(mecliz)
meclizine HCl	Motion-Time
meclizine HCl	Travel Motion Sickness(mecliz)
meclizine HCl	Travel Sickness (meclizine)
meclizine HCl	Travel-Ease (meclizine)
meclizine HCl	Univert
meclizine HCl	VertiCalm
meclizine HCl	Vertin-32
meclizine HCl	Wal-Dram 2
meclizine HCl	meclizine
naphazoline HCl/antazoline phosphate	Vasocon-A
naphazoline HCl/pheniramine maleate	Ak-Con-A
naphazoline HCl/pheniramine maleate	Allergy Eye (naphazoline-phen)
naphazoline HCl/pheniramine maleate	Allersol-A
naphazoline HCl/pheniramine maleate	Eye Allergy Relief
naphazoline HCl/pheniramine maleate	Naphazoline-A
naphazoline HCl/pheniramine maleate	Naphcon-A
naphazoline HCl/pheniramine maleate	Ocuhist
naphazoline HCl/pheniramine maleate	Opcon-A
naphazoline HCl/pheniramine maleate	Visine-A
naphazoline HCl/phenylephrine HCl/pyrilamine	4-Way Fast Acting
naphazoline HCl/phenylephrine HCl/pyrilamine/menthol	4-Way Menthol
naproxen sodium/diphenhydramine HCl	Aleve PM
naproxen sodium/diphenhydramine HCl	Naproxen PM
olopatadine HCl	Clear Eyes Once Daily Allergy
olopatadine HCl	Eye Allergy Itch Relief
olopatadine HCl	Eye Allergy Itch-Redness Rlf
olopatadine HCl	Pataday
olopatadine HCl	Pataday Once Daily Relief
olopatadine HCl	Pataday Twice Daily Relief

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Generic Name	Brand Name
olopatadine HCl	Patanase
olopatadine HCl	Patanol
olopatadine HCl	Pazeo
olopatadine HCl	olopatadine
olopatadine HCl/mometasone furoate	Ryaltris
phenindamine tartrate	Nolahist
pheniramine maleate/phenylephrine HCl/acetaminophen	Flu and Severe Cold-Nighttime
pheniramine maleate/phenylephrine HCl/acetaminophen	Flu and Sore Throat
pheniramine maleate/phenylephrine HCl/acetaminophen	Theraflu Cold-Sore Throat (PE)
pheniramine maleate/phenylephrine HCl/acetaminophen	Theraflu Flu-Sore Throat
pheniramine maleate/phenylephrine HCl/acetaminophen	Theraflu Sinus and Cold
pheniramine maleate/phenylephrine HCl/acetaminophen	Wal-Flu Cold and Sore Throat
pheniramine maleate/phenylephrine HCl/acetaminophen	Wal-Flu Night Time
phenylephrine HCl/acetaminophen/chlorpheniramine	Adt Robitussin Night Nasal Rlf
phenylephrine HCl/acetaminophen/chlorpheniramine	Advanced Formula Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Advanced Formula Decongestant
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Multi-Symptom
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Relief Multi-Symptom
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Relief(chlorphen-acet)
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Sinus PE
phenylephrine HCl/acetaminophen/chlorpheniramine	BC Sinus Pain and Congestion
phenylephrine HCl/acetaminophen/chlorpheniramine	Children's Tylenol Plus Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Childrens Plus Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Cold Relief
phenylephrine HCl/acetaminophen/chlorpheniramine	Cold Relief Plus
phenylephrine HCl/acetaminophen/chlorpheniramine	Cold Reliever
phenylephrine HCl/acetaminophen/chlorpheniramine	Cold and Flu Medicine
phenylephrine HCl/acetaminophen/chlorpheniramine	Comtrex Day/Ni Sev Cold-Sinus
phenylephrine HCl/acetaminophen/chlorpheniramine	Comtrex Flu Therapy
phenylephrine HCl/acetaminophen/chlorpheniramine	Contac Cold-Flu Day and Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Contac Cold-Flu Max Strength
phenylephrine HCl/acetaminophen/chlorpheniramine	DRYPHEN
phenylephrine HCl/acetaminophen/chlorpheniramine	Decongestab
phenylephrine HCl/acetaminophen/chlorpheniramine	Decongestabs
phenylephrine HCl/acetaminophen/chlorpheniramine	Decongestant
phenylephrine HCl/acetaminophen/chlorpheniramine	Decongestant Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Decongestant-Acetaminophen
phenylephrine HCl/acetaminophen/chlorpheniramine	Dri-Tab
phenylephrine HCl/acetaminophen/chlorpheniramine	Dristan Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Effervescent Antacid Pain
phenylephrine HCl/acetaminophen/chlorpheniramine	Effervescent Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Effervescent Cold Relief Plus
phenylephrine HCl/acetaminophen/chlorpheniramine	Flu and Severe Cold-Nighttime
phenylephrine HCl/acetaminophen/chlorpheniramine	Gendecon
phenylephrine HCl/acetaminophen/chlorpheniramine	Histagesic
phenylephrine HCl/acetaminophen/chlorpheniramine	Histex SR

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine HCl/acetaminophen/chlorpheniramine	Medicidin-D
phenylephrine HCl/acetaminophen/chlorpheniramine	Multi-Symptom Cold Decong
phenylephrine HCl/acetaminophen/chlorpheniramine	Norel AD
phenylephrine HCl/acetaminophen/chlorpheniramine	Onset Forte
phenylephrine HCl/acetaminophen/chlorpheniramine	Pain Relief Allergy Sinus
phenylephrine HCl/acetaminophen/chlorpheniramine	Pain Reliever Allergy Sinus PE
phenylephrine HCl/acetaminophen/chlorpheniramine	Plus Cold Medicine
phenylephrine HCl/acetaminophen/chlorpheniramine	Protid
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus Congest-Pain Day-Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus Congestion-Pain(chlorph)
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus Tabs
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus-Headache Day-Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinutrol PE
phenylephrine HCl/acetaminophen/chlorpheniramine	Tylenol Allergy Multi-Symptom
phenylephrine HCl/acetaminophen/chlorpheniramine	Tylenol Sinus Congestion Pain
phenylephrine HCl/acetaminophen/chlorpheniramine	Tylenol Sinus-Congest-Pain D/N
phenylephrine HCl/acetaminophen/chlorpheniramine	Valihist
phenylephrine HCl/acetaminophen/dexbrompheniramine maleate	Complete Sinus Relief
phenylephrine HCl/acetaminophen/doxylamine succinate	Day-Night Sinus Relief
phenylephrine HCl/acetaminophen/doxylamine succinate	DayTime and NiteTime Sinus
phenylephrine HCl/acetaminophen/doxylamine succinate	NightTime Sinus
phenylephrine HCl/acetaminophen/doxylamine succinate	Nighttime Sinus-Congestion
phenylephrine HCl/acetaminophen/doxylamine succinate	Sinus Daytime-Nighttime
phenylephrine HCl/acetaminophen/doxylamine succinate	Vicks DayQuil-NyQuil Sinex
phenylephrine HCl/acetaminophen/doxylamine succinate	Vicks Nyquil Sinex
phenylephrine HCl/acetaminophen/doxylamine succinate	Vicks Nyquil Sinus (PE)
phenylephrine HCl/acetaminophen/doxylamine succinate	Vicks QlearQuil Nighttime Sinus
phenylephrine HCl/acetaminophen/doxylamine succinate	Vicks Sinex Nighttime
phenylephrine HCl/acetaminophen/pyrilamine/chlorpheniramine	Minagest
phenylephrine HCl/acetaminophen/pyrilamine/chlorpheniramine	ND-Gesic
phenylephrine HCl/carbinoxamine maleate	ARIDEX-D pediatric
phenylephrine HCl/carbinoxamine maleate	Histamax D
phenylephrine HCl/carbinoxamine maleate	Norel LA
phenylephrine HCl/carbinoxamine maleate	X-Hist Pediatric
phenylephrine HCl/carbinoxamine maleate	XiraHist Pediatric
phenylephrine HCl/chlorpheniramine maleate/bellad alk	Accuhist LA
phenylephrine HCl/chlorpheniramine maleate/bellad alk	Bellahist-D LA
phenylephrine HCl/chlorpheniramine maleate/bellad alk	Histacol LA
phenylephrine HCl/chlorpheniramine maleate/scopolamine	Extendryl SR
phenylephrine HCl/chlorpheniramine maleate/scopolamine	Phenacon
phenylephrine HCl/chlorpheniramine maleate/scopolamine	Sinodex CR
phenylephrine HCl/codeine phosphat/pheniramine/sodium citrat	Tussirex
phenylephrine HCl/codeine phosphat/pheniramine/sodium citrat	Tussirex Sugar Free
phenylephrine HCl/codeine/acetaminophen/chlorpheniramine	Colrex Compound
phenylephrine HCl/codeine/chlorpheniramine	Codeine Antitussive Cough
phenylephrine HCl/codeine/chlorpheniramine/potassium iodide	Demi-Cof
phenylephrine HCl/codeine/chlorpheniramine/potassium iodide	Pediacof

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine HCl/codeine/chlorpheniramine/potassium iodide	Pedituss
phenylephrine HCl/codeine/pyrilamine	Codimal PH
phenylephrine HCl/codeine/pyrilamine	Dicomal-Ph
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Baltussin
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Coldcough PD
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Despec-PD
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Despec-PDC
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	DiHydro-PE
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Duohist DH
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Novahistine DH
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Pancof PD
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Tricof PD
phenylephrine HCl/dihydrocodeine bitartrate/chlorpheniramine	Tusscough DHC
phenylephrine HCl/diphenhydramine HCl	Ala-Hist LQ
phenylephrine HCl/diphenhydramine HCl	Aldex-CT
phenylephrine HCl/diphenhydramine HCl	Allergy and Sinus Relief
phenylephrine HCl/diphenhydramine HCl	Allergy-D
phenylephrine HCl/diphenhydramine HCl	Benadryl Allergy Plus Congest
phenylephrine HCl/diphenhydramine HCl	Benadryl-D Allergy-Sinus
phenylephrine HCl/diphenhydramine HCl	Child Allergy Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Child Allergy and Sinus D
phenylephrine HCl/diphenhydramine HCl	Child Benadryl Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Child Delsym Cough-Cold Night
phenylephrine HCl/diphenhydramine HCl	Child Delsym Nighttime C-C
phenylephrine HCl/diphenhydramine HCl	Child's Benadryl-D Allergy-Sin
phenylephrine HCl/diphenhydramine HCl	Children Night Time Cold-Cough
phenylephrine HCl/diphenhydramine HCl	Childs Triacting Cold-Cough
phenylephrine HCl/diphenhydramine HCl	Cold and Cough (diphenhydr-pe)
phenylephrine HCl/diphenhydramine HCl	Complete Allergy and Sinus-D
phenylephrine HCl/diphenhydramine HCl	DHM-PE
phenylephrine HCl/diphenhydramine HCl	Delsym Night Time Cough-Cold
phenylephrine HCl/diphenhydramine HCl	Dimetapp Cold-Congestion
phenylephrine HCl/diphenhydramine HCl	Dr Manzanilla Cough-Cold
phenylephrine HCl/diphenhydramine HCl	Nighttime Cough-Cold
phenylephrine HCl/diphenhydramine HCl	PediaCare Night Rest
phenylephrine HCl/diphenhydramine HCl	Pediacare Allergy and Cold
phenylephrine HCl/diphenhydramine HCl	Robitussin Cough and Cold
phenylephrine HCl/diphenhydramine HCl	Sudafed PE Day and Night
phenylephrine HCl/diphenhydramine HCl	Triaminic
phenylephrine HCl/diphenhydramine HCl	Triaminic Cold and CoughNT(PE)
phenylephrine HCl/diphenhydramine HCl	Wal-Dryl-D Allergy and Sinus
phenylephrine HCl/diphenhydramine HCl	Zoden PD
phenylephrine HCl/diphenhydramine HCl	diphenhydramine-phenylephrine
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	BPM PE HC
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	Canges-HC
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	Canges-HC NR
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	FluTuss HC

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Generic Name	Brand Name
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	HPB MAX
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	M-END MAX
phenylephrine HCl/hydrocodone bitartrate/brompheniramine	Tusnel-HC
phenylephrine HCl/hydrocodone bitartrate/carbinoxamine	Donatussin MAX
phenylephrine HCl/hydrocodone bitartrate/carbinoxamine	Excof
phenylephrine HCl/hydrocodone bitartrate/carbinoxamine	Excof-SF
phenylephrine HCl/hydrocodone bitartrate/carbinoxamine	Max HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Aber-Tuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Atuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Atuss HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Atuss MS
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	B-Tuss
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Baltussin HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Chlorphen HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Comtussin HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Cotuss HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Cotuss MS
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Coughtuss
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Cyndal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Cytuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	De-Chlor HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	De-Chlor HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Ditussin HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	DroTuss-CP
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	DuraDal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	DuraDal HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	ED-TLC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Echotuss-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Ed-Tuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Efasin HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Efasin HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Endagen-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Endal-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Endal-HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Endotuss HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Enplus-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Exo-Tuss
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Guiaphen HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	H-C Tussive
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hist-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hist-Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Histinex HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Histussin HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydro PC II
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydro-PC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydro-PC II Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydrocodone CP

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Generic Name	Brand Name
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydrocodone HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hydron CP
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Hyphen-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Iodal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Iotussin HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	KG-DAL HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	KG-Dal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Liquicough HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Maxi-Tuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Maxi-Tuss HCX
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Maxi-Tuss SA
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Med-Hist HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Mintuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Mintuss HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Mintuss MS
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Nasatuss
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Neo HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	NuDal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Phen/Chlor HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Phendal-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Poly-Tussin Cough
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Poly-Tussin HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Quindal-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Quindal-HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Relacon-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Relasin-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Rindal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Rindal HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Triant-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tridal HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tridal HD Plus
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tritussin
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tusana-D
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tuss-DS
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tuss-ES
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tuss-HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Tuss-PD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Uni-Tricof HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Uni-Tuss HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Vanex-HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Ventuss
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Well-Tuss HD
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	Z-Cof HC
phenylephrine HCl/hydrocodone bitartrate/chlorpheniramine	chlorphen-phenyleph-hydrocodon
phenylephrine HCl/hydrocodone bitartrate/dexbrompheniramine	Cytuss HC
phenylephrine HCl/hydrocodone bitartrate/dexbrompheniramine	H-C Tussive-NR
phenylephrine HCl/hydrocodone bitartrate/dexbrompheniramine	Histussin HC

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine HCl/hydrocodone bitartrate/dexbrompheniramine	RelaTuss HC
phenylephrine HCl/hydrocodone bitartrate/dexbrompheniramine	dexbromphenirmn-PE-hydrocodone
phenylephrine HCl/hydrocodone bitartrate/dexchlorpheniramine	Codimal DH
phenylephrine HCl/hydrocodone bitartrate/dexchlorpheniramine	EndaCof-Plus
phenylephrine HCl/hydrocodone bitartrate/dexchlorpheniramine	Hydex PD
phenylephrine HCl/hydrocodone bitartrate/dexchlorpheniramine	Notuss PD
phenylephrine HCl/hydrocodone bitartrate/dexchlorpheniramine	Zotex-HC
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Endal-HD (diphenhydramine)
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Gestuss-HC
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Hydro-DP
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Rindal HPD
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Tusscough HC
phenylephrine HCl/hydrocodone bitartrate/diphenhydramine	Tussinate
phenylephrine HCl/hydrocodone bitartrate/pyril/chlorphenir	Phena-HC
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Atuss MR
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Codal-DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Codimal DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Codituss DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	De-Chlor MR
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Dicomal DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Hyco-DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Hycomal DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Hydrophene DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Mintuss MR
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Phendacof Plus
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Poly Hist HC
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Poly-Tussin Syrup
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Pro-Red
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Trimal DH
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	Tussplex
phenylephrine HCl/hydrocodone bitartrate/pyrilamine	pyrilam-phenyleph-hydrocodone
phenylephrine HCl/pheniramine maleate	Alahist D
phenylephrine HCl/pheniramine maleate	Cough Syrup
phenylephrine HCl/pheniramine maleate	Cough and Cold Medicine
phenylephrine HCl/pheniramine maleate	Dristan (phenyleph-pheniram)
phenylephrine HCl/pheniramine maleate	Scot-Tussin
phenylephrine HCl/phenylpropanolamine HCl/brompheniramine	Bromophen TD
phenylephrine HCl/phenylpropanolamine HCl/brompheniramine	Dimaphen
phenylephrine HCl/phenylpropanolamine HCl/chlorpheniramine	Phena-Plus
phenylephrine HCl/phenylpropanolamine HCl/pyril/chlorphenir	Covanamine
phenylephrine HCl/phenylpropanolamine HCl/pyril/chlorphenir	Histalet Forte
phenylephrine HCl/phenylpropanolamine HCl/pyril/chlorphenir	Histatime Forte
phenylephrine HCl/phenylpropanolamine HCl/pyril/chlorphenir	Phena-S
phenylephrine HCl/phenylpropanolamine HCl/pyril/chlorphenir	Poly-Hist Forte
phenylephrine HCl/phenyltoloxamine/chlorpheniramine	Chlortox LA
phenylephrine HCl/phenyltoloxamine/chlorpheniramine	Comhist LA
phenylephrine HCl/phenyltoloxamine/chlorpheniramine	Linhist LA

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Generic Name	Brand Name
phenylephrine HCl/phenyltoloxamine/chlorpheniramine	Q-Hist LA
phenylephrine HCl/phenyltoloxamine/chlorpheniramine	chlorphen-phenyltoloxamine-pe
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Atrohist Plus-SR
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Deconhist LA
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Ex-Tuss
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Pharmhist Plus
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Phenchlor SHA-SA
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Phenylchlor BA
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Pro-Tabs
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Pro-Tuss
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Q-Tuss
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Respa A.R.M.
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Rolatuss SR
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Ru-Tuss
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Ru-Tuss TR
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	Tuss-Delay
phenylephrine HCl/ppa/chlorpheniramine/belladonna alkaloids	chlorphen-PE-PPA-belladonna
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Andecon Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Decongest
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Decongestabs
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Decongestant SR
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Naldec Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Naldecon
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Naldecon Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Naldelate
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Naldelate Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Nalgest
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Nalgest Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Nalphen
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Nalphen Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Nalspan Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	P-D Span SR
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Pe/Phenylprop/Phenyltox/Cpm
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Pedicon Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Sinucon Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Tri-Phen-Chlor
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Tri-Phen-Chlor Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Tri-Phen-Mine
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Tri-Phen-Mine Pediatric
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Tri-Phen-Mine TD
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	Uni-Decon CR
phenylephrine HCl/ppa/phenyltoloxamine/chlorpheniramine	West-Decon SR
phenylephrine HCl/promethazine HCl	Phen-Tuss Ad
phenylephrine HCl/promethazine HCl	Phenergan VC
phenylephrine HCl/promethazine HCl	Promethazine VC
phenylephrine HCl/promethazine HCl	Promethazine VC Plain
phenylephrine HCl/promethazine HCl	promethazine-phenylephrine

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine HCl/pseudoephedrine HCl/chlorphenir/bellad alk	Stahist
phenylephrine HCl/pyrilamine maleate	Aldex D
phenylephrine HCl/pyrilamine maleate	Glen PE
phenylephrine HCl/pyrilamine maleate	Poly Hist Forte (pyrilamine)
phenylephrine HCl/pyrilamine maleate	Pyril D
phenylephrine HCl/pyrilamine maleate	Ru-Hist-D (with pyrilamine)
phenylephrine HCl/pyrilamine maleate	Vazotab (pyrilamine)
phenylephrine HCl/pyrilamine maleate	pyrilamine-phenylephrine
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	MyHist-PD
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	POLY HIST PD
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Phena-Plus
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Phena-S
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Poly Hist Forte (CPM)
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Pyrichlor PE
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Pyril-Chlor-Phen
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Ru-Hist Forte
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	Triplex AD
phenylephrine HCl/pyrilamine maleate/chlorpheniramine	chlorphen-pyrlamine-phenyleph
phenylephrine HCl/salicylamide/acetaminophen/chlorphenir	Kolephrin
phenylephrine HCl/salicylamide/acetaminophen/chlorphenir	Rhinogesic
phenylephrine HCl/sodium salicylate/pheniramine/caffeine	Scot-Tussin Original
phenylephrine HCl/triprolidine HCl	Dr Manzanilla PE
phenylephrine HCl/triprolidine HCl	Histex PE
phenylephrine HCl/triprolidine HCl	Prohist LQ
phenylephrine HCl/triprolidine HCl	Sinus Nighttime
phenylephrine HCl/triprolidine HCl	Stahist TP
phenylephrine tannate/chlorpheniramine tannate	AllanTan
phenylephrine tannate/chlorpheniramine tannate	AlleRx
phenylephrine tannate/chlorpheniramine tannate	Allergy Junior
phenylephrine tannate/chlorpheniramine tannate	Chlor-Phenylephrine-Tannate
phenylephrine tannate/chlorpheniramine tannate	ChlorPed D
phenylephrine tannate/chlorpheniramine tannate	ChlorTan D
phenylephrine tannate/chlorpheniramine tannate	Dallergy-JR
phenylephrine tannate/chlorpheniramine tannate	MYCI CHLORPED D
phenylephrine tannate/chlorpheniramine tannate	NUHIST
phenylephrine tannate/chlorpheniramine tannate	Ny-Tannic
phenylephrine tannate/chlorpheniramine tannate	P-Tann D
phenylephrine tannate/chlorpheniramine tannate	PE Tann-CP Tann
phenylephrine tannate/chlorpheniramine tannate	PediaPhyl D
phenylephrine tannate/chlorpheniramine tannate	PediaTan D
phenylephrine tannate/chlorpheniramine tannate	Phenacon
phenylephrine tannate/chlorpheniramine tannate	Phenclor Tannate Pediatric
phenylephrine tannate/chlorpheniramine tannate	Phenyl Chlor-Tan
phenylephrine tannate/chlorpheniramine tannate	Pro-Tannate
phenylephrine tannate/chlorpheniramine tannate	R-Tanna
phenylephrine tannate/chlorpheniramine tannate	R-Tanna Pediatric
phenylephrine tannate/chlorpheniramine tannate	R-Tanna S

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine tannate/chlorpheniramine tannate	RINATE Pediatric
phenylephrine tannate/chlorpheniramine tannate	Rhinatate-NF
phenylephrine tannate/chlorpheniramine tannate	Ricobid
phenylephrine tannate/chlorpheniramine tannate	Ry-Tann
phenylephrine tannate/chlorpheniramine tannate	Rynatan
phenylephrine tannate/chlorpheniramine tannate	Rynatan Pediatric
phenylephrine tannate/chlorpheniramine tannate	TanaHist D
phenylephrine tannate/chlorpheniramine tannate	Tanatan RF
phenylephrine tannate/chlorpheniramine tannate	Tannate Pediatric
phenylephrine tannate/chlorpheniramine tannate	chlorpheniramine-PE tannates
phenylephrine tannate/diphenhydramine tannate	D-Tann
phenylephrine tannate/diphenhydramine tannate	DiphenMax D
phenylephrine tannate/diphenhydramine tannate	Diphentann-D
phenylephrine tannate/diphenhydramine tannate	Dytan-D
phenylephrine tannate/diphenhydramine tannate	Pediatann-CT
phenylephrine tannate/diphenhydramine tannate	Pediatex-CT
phenylephrine tannate/diphenhydramine tannate	RE TANN D
phenylephrine tannate/diphenhydramine tannate	UNI-TANN D
phenylephrine tannate/hydrocodone tannate/diphenhydramine	D-Tann HC
phenylephrine tannate/hydrocodone tannate/diphenhydramine	DYTAN-HC
phenylephrine tannate/pyrilamine tannate	AllanVan-S
phenylephrine tannate/pyrilamine tannate	Deconsal CT
phenylephrine tannate/pyrilamine tannate	Duonate-12
phenylephrine tannate/pyrilamine tannate	K-Tan
phenylephrine tannate/pyrilamine tannate	K-Tan 4
phenylephrine tannate/pyrilamine tannate	P-Tanna 12
phenylephrine tannate/pyrilamine tannate	Pyrilafen Tannate-12
phenylephrine tannate/pyrilamine tannate	Pyrlex PD
phenylephrine tannate/pyrilamine tannate	R-Tanna 12
phenylephrine tannate/pyrilamine tannate	R-Tannic-S A/D
phenylephrine tannate/pyrilamine tannate	Rhinatate-12 Pediatric
phenylephrine tannate/pyrilamine tannate	Ry-T-12
phenylephrine tannate/pyrilamine tannate	Ryna-12
phenylephrine tannate/pyrilamine tannate	Ryna-12 S
phenylephrine tannate/pyrilamine tannate	Rynesa 12S
phenylephrine tannate/pyrilamine tannate	Tana R-12
phenylephrine tannate/pyrilamine tannate	Tanavan
phenylephrine tannate/pyrilamine tannate	V-Tann
phenylephrine tannate/pyrilamine tannate	Viravan-S
phenylephrine tannate/pyrilamine tannate	Viravan-T
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	AlleRx
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	AllerTan
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Atrohist Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Chlor-Tan A 12
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Chlorex-A 12
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Conal
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Gelhist Pediatric

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Histatan
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Histatan Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Nalex A 12
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Pro-Tannate Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	R-Tannamine
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	R-Tannamine Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	R-Tannate
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	R-Tannate Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Rhinatate
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Rhinatate Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Ryna-Mine
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Rynatan
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Rynatan Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Rynatan-S Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	TanaCof-A 12
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tanamine
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tanamine Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tanoral Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri Tann Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Gestan S
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Hist
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Hist Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Tanate
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Tannate
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tri-Tannate S Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Triotann
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Triotann-S
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Triotann-S Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Triple Tannate Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	Tritan
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	URL-Tannate
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	URL-Tannate Pediatric
phenylephrine tannate/pyrilamine tannate/chlorpheniramine	chlorphen-pyirilamine-PE tannts
phenylephrine/acetaminophen/phenyltoloxamine/chlorpheniramin	Norel SR
phenylephrine/acetaminophen/phenyltoloxamine/chlorpheniramin	Trital SR
phenylephrine/hydrocodone bit/acetaminophen/chlorpheniramine	Hycomine Compound
phenylephrine/hydrocodone/brompheniramine tannates	Vazotuss HC
phenylephrine/phenylpropanol/dihydrocodeine/chlorpheniramine	Vanex Grape
phenylephrine/phenylpropanolamine/hydrocodon/pyrilam/phenirm	logreen
phenylephrine/phenylpropanolamine/hydrocodon/pyrilam/phenirm	Q-Tuss HC
phenylephrine/phenylpropanolamine/hydrocodon/pyrilam/phenirm	Rolatuss/Hydrocodone
phenylephrine/phenylpropanolamine/hydrocodon/pyrilam/phenirm	Vetuss HC

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
phenylephrine/pseudoephed/hydrocodone/pyrilamine/chlorphenir	Statuss Green
phenylpropanolamine HCl/acetaminophen/brompheniramine	Dimetapp Allergy Sinus
phenylpropanolamine HCl/acetaminophen/brompheniramine	Nasal Decongestant Plus
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Alumadrine
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Aspirin Free Cold
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Chlor-Trimeton Sinus
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Cold Tablet W/Decongestant
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Congestant D
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Coricidin
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Coricidin D
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Coricidin Demilets
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Duadacin
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Medicidin-D
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Sinulin
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Super Cold Tabs
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	Super Strength Sinadrin
phenylpropanolamine HCl/acetaminophen/chlorpheniramine	chlorphen-PPA-acetaminophen
phenylpropanolamine HCl/acetaminophen/phenyltoloxamine	Sinac
phenylpropanolamine HCl/acetaminophen/phenyltoloxamine	Sinahist
phenylpropanolamine HCl/acetaminophen/phenyltoloxamine	Sinutrol
phenylpropanolamine HCl/acetaminophn/phenyltolox/chlorphenir	Norel Plus
phenylpropanolamine HCl/aspirin/chlorpheniramine	BC Cold Powder/Cold-Sinus
phenylpropanolamine HCl/aspirin/chlorpheniramine	Effervescent Cold
phenylpropanolamine HCl/aspirin/chlorpheniramine	Effervescent Cold Medicine
phenylpropanolamine HCl/aspirin/chlorpheniramine	Effervescent Cold Relief
phenylpropanolamine HCl/aspirin/chlorpheniramine	Effervescent Nite Cold Relief
phenylpropanolamine HCl/aspirin/chlorpheniramine	Effervescent Plus
phenylpropanolamine HCl/aspirin/chlorpheniramine	Medi-Seltzer Plus
phenylpropanolamine HCl/aspirin/chlorpheniramine/caffeine	Major-Stan
phenylpropanolamine HCl/aspirin/diphenhydramine	Alka-Seltzer Plus Night-Time
phenylpropanolamine HCl/aspirin/diphenhydramine	Cold Relief Nite
phenylpropanolamine HCl/aspirin/diphenhydramine	Effervescent Cold Relief
phenylpropanolamine HCl/aspirin/diphenhydramine	Effervescent Nite Cold Relief
phenylpropanolamine HCl/aspirin/diphenhydramine	Effervescent Nite Relief
phenylpropanolamine HCl/aspirin/diphenhydramine	Effervescent Plus Cold Nite
phenylpropanolamine HCl/aspirin/diphenhydramine	Night Time Cold Medicine
phenylpropanolamine HCl/chlorpheniramine maleate/pheninda	Nolamine
phenylpropanolamine HCl/clemastine fumarate	Allerhist-D
phenylpropanolamine HCl/clemastine fumarate	Antihist-D
phenylpropanolamine HCl/clemastine fumarate	Antihistamine
phenylpropanolamine HCl/clemastine fumarate	Dailyhist-D
phenylpropanolamine HCl/clemastine fumarate	Dayhist-D
phenylpropanolamine HCl/clemastine fumarate	Tavist-D
phenylpropanolamine HCl/codeine/brompheniramine	Bromanate DC
phenylpropanolamine HCl/codeine/brompheniramine	Bromphen DC
phenylpropanolamine HCl/codeine/brompheniramine	Bromphen DC-Codeine
phenylpropanolamine HCl/codeine/brompheniramine	Brompheniramine DC

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Generic Name	Brand Name
phenylpropanolamine HCl/codeine/brompheniramine	Diamine DC C.S.
phenylpropanolamine HCl/codeine/brompheniramine	Multi-Hist CS
phenylpropanolamine HCl/codeine/brompheniramine	Myphetane DC
phenylpropanolamine HCl/codeine/brompheniramine	Poly-CS
phenylpropanolamine HCl/codeine/brompheniramine	Poly-Histine CS
phenylpropanolamine HCl/codeine/brompheniramine	Polytine CS
phenylpropanolamine HCl/codeine/brompheniramine	Trihist-CS
phenylpropanolamine HCl/codeine/brompheniramine	Uni-Multihist CS
phenylpropanolamine HCl/pyrilamine maleate/pheniramine	Dometuss-NR
phenylpropanolamine HCl/pyrilamine maleate/pheniramine	Tri-P Oral Infant
phenylpropanolamine HCl/pyrilamine maleate/pheniramine	Triactin Oral Infant
phenylpropanolamine HCl/pyrilamine maleate/pheniramine	Triaminic Pediatric
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Delhistine D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Delhistine D ER
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Highland Histine-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Highland Histine-D Ped
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Hista-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Hista-D Pediatric
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Histasil-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Iohist D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	KG-Hist D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Multi-Hist-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Multihistamine-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Multihistamine-D Pediatric
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Poly-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Poly-Histine-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Poly-Histine-D Pediatric
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Polytine D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Ppa/Pyrilamine/P-Tlox/Phenir
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Prohistine-D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Quadra-Hist D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Quadra-Hist D Ped (PPA)
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	TriHist D
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Uni Multi Hist D Pediatric
phenylpropanolamine HCl/pyrilamine/phenyltoloxamine/phenir	Uni-Multihist D
phenylpropanolamine/acetaminophen/chlorpheniramine/caffeine	Sinapils
pot guaiaico/dextromethorphan/phenyleph/pyrilamine/citric acid	Broncopectol
pot guaiaico/dextromethorphan/phenyleph/pyrilamine/citric acid	Broncopectol NN
pot guaicol-sod citrate/dextromethorphan/phenylephrine/pyril	Albatussin NN
potassium guaiacolsulfonate/dextromethorphan/phenyleph/pyril	Albatussin NN
potassium guaiacolsulfonate/dextromethorphan/phenyleph/pyril	Albatussin SR Senior
potassium guaiacolsulfonate/dextromethorphan/phenyleph/pyril	Vita-Numonyl AD
potassium guaiacolsulfonate/dextromethorphan/phenyleph/pyril	Vita-Numonyl NR
promethazine HCl	Adgan
promethazine HCl	Phen-Tuss
promethazine HCl	Phenadoz
promethazine HCl	Phenergan

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
promethazine HCl	Phenergan Fortis
promethazine HCl	Phenergan Plain
promethazine HCl	Phenoject-50
promethazine HCl	Promacot
promethazine HCl	Promethegan
promethazine HCl	promethazine
promethazine HCl in 0.9 % sodium chloride	promethazine in 0.9 % NaCl
promethazine HCl/codeine	Phenergan-Codeine
promethazine HCl/codeine	promethazine-codeine
promethazine HCl/dextromethorphan HBr	Phen-Tuss Dm
promethazine HCl/dextromethorphan HBr	Phenergan DM
promethazine HCl/dextromethorphan HBr	promethazine-DM
promethazine/phenylephrine HCl/codeine	M-Phen
promethazine/phenylephrine HCl/codeine	Phenergan VC-Codeine
promethazine/phenylephrine HCl/codeine	Promethazine VC-Codeine
promethazine/phenylephrine HCl/codeine	promethazine-phenyleph-codeine
pseudoephedrine HCl/acetaminophen/brompheniramine	Children's Dimetapp Cold(APAP)
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Actifed Cold and Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Alka-Seltzer Plus Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Allergy Sinus Pain Reliever
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Allergy Sinus-D
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Allergy-Sinus Acetaminophen
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Allergy-Sinus Maximum Strength
pseudoephedrine HCl/acetaminophen/chlorpheniramine	BC Allergy-Sinus-Headache
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Children's Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Children's Cold and Pain
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Children's Non-Aspirin Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Children's Pain Relief-Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Children's Tylenol Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Codimal
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Cold Medicine
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Cold Medicine Plus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Cold Plus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Comtrex
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Drinex
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Duadacin
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Extra Strength Sinus Relief
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Flu and Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Flu and Cold Medicine
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Flu, Cold Hot Liquid Medicine
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Flu-Cold Medicine
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Lorsin
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Maximum Apap Allergy/Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Maximum Strength Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Non-Aspirin Allergy Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Non-Aspirin Child's Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Non-Aspirin Sinus

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Non-Aspirin Sinus Allergy
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Pain Relief Allergy Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Pain Relief Plus Cold
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Pain Reliever Allergy Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Phenapap Sinus Headache
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Simplet
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Singlet
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinumed
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Aid
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Allergy
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Extra-Strength
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Maximum Strength
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Pain Relief Max Str
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Relief
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus Tablet
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinus-Allergy Max Strength
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinuson
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinustab
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Sinutab Maximum Strength
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Theraflu Cold and Sore Throat
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Theraflu Cold-Cough
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Theraflu Flu-Sore Throat
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Triaminicin
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Tylenol Allergy Complt Mult-Sx
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Tylenol Allergy Sinus Day Time
pseudoephedrine HCl/acetaminophen/chlorpheniramine	V-Med
pseudoephedrine HCl/acetaminophen/chlorpheniramine	cpm-pseudoephed-acetaminophen
pseudoephedrine HCl/acetaminophen/dexbrompheniramine	Complete Sinus Relief
pseudoephedrine HCl/acetaminophen/dexbrompheniramine	Drixoral Allergy Sinus
pseudoephedrine HCl/acetaminophen/dexbrompheniramine	Drixoral Cold and Flu
pseudoephedrine HCl/acetaminophen/dexbrompheniramine	Sinadrin Plus
pseudoephedrine HCl/acetaminophen/dexchlorpheniramine	Hexaflu
pseudoephedrine HCl/acetaminophen/diphenhydramine	Acetaminophen Flu Nighttime
pseudoephedrine HCl/acetaminophen/diphenhydramine	Actifed Sinus Daytime, Night
pseudoephedrine HCl/acetaminophen/diphenhydramine	All-Sinus-Head
pseudoephedrine HCl/acetaminophen/diphenhydramine	Allergy Sinus Complete Caplet
pseudoephedrine HCl/acetaminophen/diphenhydramine	Allergy Sinus Headache
pseudoephedrine HCl/acetaminophen/diphenhydramine	Allergy Sinus Nite Caplet
pseudoephedrine HCl/acetaminophen/diphenhydramine	Allergy/Sinus Nighttime Max St
pseudoephedrine HCl/acetaminophen/diphenhydramine	Benadryl Allergy-Sinus-Head
pseudoephedrine HCl/acetaminophen/diphenhydramine	Benadryl Allergy-Sinus-Headach
pseudoephedrine HCl/acetaminophen/diphenhydramine	Benadryl Cold
pseudoephedrine HCl/acetaminophen/diphenhydramine	Benadryl Cold/Flu
pseudoephedrine HCl/acetaminophen/diphenhydramine	Children's Tylenol Allergy-D
pseudoephedrine HCl/acetaminophen/diphenhydramine	Children's Tylenol Plus
pseudoephedrine HCl/acetaminophen/diphenhydramine	Cold Caps

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
pseudoephedrine HCl/acetaminophen/diphenhydramine	Cold Control +
pseudoephedrine HCl/acetaminophen/diphenhydramine	Complete Allergy/Sinus
pseudoephedrine HCl/acetaminophen/diphenhydramine	Decongestant Plus Cold/Flu
pseudoephedrine HCl/acetaminophen/diphenhydramine	Diphedryl
pseudoephedrine HCl/acetaminophen/diphenhydramine	Intense Cold Medicine
pseudoephedrine HCl/acetaminophen/diphenhydramine	Intense Strength Cold Medicine
pseudoephedrine HCl/acetaminophen/diphenhydramine	Kenahist Plus
pseudoephedrine HCl/acetaminophen/diphenhydramine	Medi-Tabs Allergy Sinus
pseudoephedrine HCl/acetaminophen/diphenhydramine	Multi-Symptom Flu Relief
pseudoephedrine HCl/acetaminophen/diphenhydramine	Night Time
pseudoephedrine HCl/acetaminophen/diphenhydramine	Nighttime Flu Medicine
pseudoephedrine HCl/acetaminophen/diphenhydramine	Non-ASA Flu Nighttime Max St
pseudoephedrine HCl/acetaminophen/diphenhydramine	Non-Aspirin Allergy Sinus Pm
pseudoephedrine HCl/acetaminophen/diphenhydramine	Non-Aspirin Flu
pseudoephedrine HCl/acetaminophen/diphenhydramine	Sudafed Sinus Nighttime (PSE)
pseudoephedrine HCl/acetaminophen/diphenhydramine	Suphedrine Sinus Nighttime
pseudoephedrine HCl/acetaminophen/diphenhydramine	Tylenol Allergy Cmpl Nighttime
pseudoephedrine HCl/acetaminophen/diphenhydramine	Tylenol Allergy Sinus Night
pseudoephedrine HCl/acetaminophen/diphenhydramine	Tylenol Flu Night Time
pseudoephedrine HCl/acetaminophen/diphenhydramine	Tylenol Max St Flu Nighttime
pseudoephedrine HCl/acetaminophen/diphenhydramine	Valu-Dryl Allergy-Sinus-Head
pseudoephedrine HCl/acetaminophen/diphenhydramine	Wal-dryl Allergy-Sinus-Head
pseudoephedrine HCl/acetaminophen/doxylamine succinate	Tylenol Sinus Day-Night Pack
pseudoephedrine HCl/acetaminophen/doxylamine succinate	Tylenol Sinus Night Time
pseudoephedrine HCl/acetaminophen/dp-hydramine/chlorphenir	Tylenol Allergy Cmp Mult-Sx NT
pseudoephedrine HCl/acetaminophen/dp-hydramine/chlorphenir	Tylenol Allergy Sinus Con Pack
pseudoephedrine HCl/acrivastine	Semprex-D
pseudoephedrine HCl/aspirin/chlorpheniramine	Effervescent Cold Relief
pseudoephedrine HCl/aspirin/chlorpheniramine	Effervescent Plus Cold Relief
pseudoephedrine HCl/carbinoxamine maleate/scopolamine	Nacon
pseudoephedrine HCl/carbinoxamine maleate/scopolamine	Pannaz
pseudoephedrine HCl/carbinoxamine maleate/scopolamine	Pannaz S
pseudoephedrine HCl/carbinoxamine maleate/scopolamine	Pseudox M
pseudoephedrine HCl/chlorpheniramine maleate/bellad alk	Respa-AR
pseudoephedrine HCl/chlorpheniramine maleate/bellad alk	Ru-Tuss
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	AlleRx
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	AlleRx Dose Pack
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Allepak
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Allergy AM-PM
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Allergy DN
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Amdry-C
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Coldamine
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	DURAHIST
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Dallergy PSE
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	DryMax
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Hista-Vent PSE
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Histade MX

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Generic Name	Brand Name
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Histatab
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Mescolor
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	PCM LA
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	PSE 90-CPM 8-MS 2.5
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Pannaz (methscopolamine)
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Pseudo CM
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	RelCof DN PSE
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Relcof PSE
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Rescon Mx
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	RhinaClear
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Scopohist
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Time-Hist QD
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Vaso
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	VisRx
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	Xiral SR
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	chlorphen-pseudoephed-methscop
pseudoephedrine HCl/chlorpheniramine maleate/methylscopolamn	pseud-methscop/cpm-methscop
pseudoephedrine HCl/chlorpheniramine maleate/zinc acetate	Zinx Allergy Kit
pseudoephedrine HCl/codeine phosphate/triprolidine	Actagen C
pseudoephedrine HCl/codeine phosphate/triprolidine	Poly Hist NC
pseudoephedrine HCl/codeine phosphate/triprolidine	Triacin C
pseudoephedrine HCl/codeine phosphate/triprolidine	Trifed-C
pseudoephedrine HCl/codeine phosphate/triprolidine	Tripolidine-C
pseudoephedrine HCl/codeine phosphate/triprolidine	pseudoeph-triprolidine-cod
pseudoephedrine HCl/codeine/chlorpheniramine	Co-Histine DH
pseudoephedrine HCl/codeine/chlorpheniramine	Codehist DH
pseudoephedrine HCl/codeine/chlorpheniramine	Decohistine DH
pseudoephedrine HCl/codeine/chlorpheniramine	Dihist DH
pseudoephedrine HCl/codeine/chlorpheniramine	Dihistine DH
pseudoephedrine HCl/codeine/chlorpheniramine	Novadyne DH
pseudoephedrine HCl/codeine/chlorpheniramine	Novagest DH
pseudoephedrine HCl/codeine/chlorpheniramine	Novahistine DH
pseudoephedrine HCl/codeine/chlorpheniramine	Phenhist Modified DH
pseudoephedrine HCl/codeine/chlorpheniramine	Phenylhistine DH
pseudoephedrine HCl/codeine/chlorpheniramine	Ryna-C
pseudoephedrine HCl/codeine/chlorpheniramine	chlorphen-pseudoephed-codeine
pseudoephedrine HCl/diphenhydramine HCl	Actifed Allergy Daytime/Night
pseudoephedrine HCl/diphenhydramine HCl	Allergy Decongestant
pseudoephedrine HCl/diphenhydramine HCl	Allergy and Congest Relief
pseudoephedrine HCl/diphenhydramine HCl	Banophen Plus
pseudoephedrine HCl/diphenhydramine HCl	Benadryl Allergy Decongestant
pseudoephedrine HCl/diphenhydramine HCl	Benadryl Allergy Sinus Child's
pseudoephedrine HCl/diphenhydramine HCl	Benadryl-D Allergy and Sinus
pseudoephedrine HCl/diphenhydramine HCl	Decongestant Allergy
pseudoephedrine HCl/diphenhydramine HCl	Tekral
pseudoephedrine HCl/diphenhydramine HCl	Wal-dryl-D
pseudoephedrine HCl/diphenhydramine citrate	Benadryl Allergy-Sinus

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
pseudoephedrine HCl/diphenhydramine citrate	Benadryl-D Fastmelt
pseudoephedrine HCl/diphenhydramine citrate	Children's Benadryl Allg-Cold
pseudoephedrine HCl/hydrocodone bitartrate/triprolidine	Zymine HC
pseudoephedrine HCl/pyrilamine maleate/phenyltolox/phenir	Quadra-Hist D
pseudoephedrine HCl/pyrilamine maleate/phenyltolox/phenir	Quadra-Hist D Ped
pseudoephedrine polistirex/chlorpheniramine polacrilex	Sudal 12
pseudoephedrine polistirex/chlorpheniramine polistirex	Sudal 12
pseudoephedrine sulfate/azatadine maleate	Rynatan
pseudoephedrine sulfate/azatadine maleate	Trinalin Repetabs
pseudoephedrine tannate/brompheniramine tannate	B-Vex PD
pseudoephedrine tannate/brompheniramine tannate	Brovex PD
pseudoephedrine tannate/brompheniramine tannate	Lodrane D
pseudoephedrine tannate/dexchlorpheniramine tannate	AllerDur
pseudoephedrine tannate/dexchlorpheniramine tannate	Bi-Tann DP
pseudoephedrine tannate/dexchlorpheniramine tannate	Duotan PD
pseudoephedrine tannate/dexchlorpheniramine tannate	SuTan
pseudoephedrine tannate/dexchlorpheniramine tannate	Tanafed DP
pseudoephedrine tannate/pyrilamine tannate	Viravan-P (Tannate)
pseudoephedrine tannate/triprolidine tannate	Zymine DRX
pseudoephedrine/dextromethorphan/guaifenesin/acetaminophen	Tylenol Cold Day-Night Pack
pseudoephedrine/hydrocodone/brompheniramine tannates	SymTan A
pseudoephedrine/methscopolamn/chlorpheniramine/phenylephrine	AlleRx 30
pseudoephedrine/methscopolamn/chlorpheniramine/phenylephrine	Allerx 10
pseudoephedrine/pyrilamine/dexchlorpheniramine tannates	Nalfrx
pyrilamine maleate	PediaClear-8
pyrilamine maleate/chlophedianol HCl	Children's Dayclear Allergy
pyrilamine maleate/chlophedianol HCl	DayClear Allergy Relief
pyrilamine maleate/chlophedianol HCl	Ninjacof
pyrilamine maleate/chlophedianol HCl	VanaCof AC
pyrilamine maleate/chlophedianol HCl	VanaTab AC
pyrilamine maleate/chlophedianol HCl	Vanacof-8
pyrilamine maleate/chlophedianol HCl/acetaminophen	Ninjacof-A
pyrilamine maleate/dexbrompheniramine tannate	Poly Tan
pyrilamine maleate/dextromethorphan HBr	Capron DM
pyrilamine maleate/dextromethorphan HBr	Capron DMT
pyrilamine maleate/phenylephrine HCl/chlophedianol HCl	Pro-Chlo
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Albatussin
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Albatussin Pediatric NR
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Aldex DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Codal-DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Codimal DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Codituss DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Dicomal-DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	MyHist-DM

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Generic Name	Brand Name
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	POLY HIST DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Pyril DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Reme Hist DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Triplex DM
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	pyrilamine-phenylephrine-DM
pyrilamine maleate/phenylephrine HCl/dihydrocodeine bitart	Poly Hist DHC
pyrilamine maleate/phenyltoloxamine/pheniramine	Poly-Histine
pyrilamine maleate/phenyltoloxamine/pheniramine	Tri-Histine
pyrilamine maleate/pseudoephedrine HCl	Viravan-P
pyrilamine maleate/pseudoephedrine HCl/carbetapentane citrat	Corzall Plus
pyrilamine maleate/pseudoephedrine HCl/carbetapentane citrat	Zotex-D
pyrilamine maleate/pseudoephedrine HCl/chlophedianol HCl	Ninjacof-D
pyrilamine maleate/pseudoephedrine HCl/codeine phosphate	Neo AC
pyrilamine maleate/pseudoephedrine HCl/dextromethorphan HBr	Viravan-PDM
pyrilamine tannate	Pyrlex
thonzylamine HCl/chlophedianol HCl	POLY HIST PD
thonzylamine HCl/phenylephrine HCl	Nasopen PE
thonzylamine HCl/phenylephrine HCl/chlophedianol HCl	Vanacof APE
thonzylamine HCl/phenylephrine HCl/dextromethorphan HBr	Poly-Hist DM (thonzylamine)
tripelennamine HCl	PBZ
tripelennamine HCl	PBZ-SR
triprolidine HCl	Dr Manzanilla Infant
triprolidine HCl	Dr Manzanilla Pediatric (Trip)
triprolidine HCl	Histex (triprolidine)
triprolidine HCl	Histex PD
triprolidine HCl	Histex PDX
triprolidine HCl	M-Hist PD
triprolidine HCl	Miclara LQ
triprolidine HCl	PediaClear Allergy
triprolidine HCl	PediaClear PD
triprolidine HCl	Tripohist
triprolidine HCl	VanaClear PD
triprolidine HCl	Vanahist PD
triprolidine HCl	Zymine
triprolidine HCl	triprolidine HCl
triprolidine HCl/chlophedianol HCl	Prohist CF
triprolidine HCl/dextromethorphan HBr/acetaminophen	Delsym Nighttime Cough
triprolidine HCl/dextromethorphan HBr/acetaminophen	Mucinex Nightshift Cold-Flu
triprolidine HCl/dextromethorphan/acetaminophen/guaifenesin	Mucinex Fast-Max DM Nightshift
triprolidine HCl/phenylephrine HCl/chlophedianol HCl	Prohist CD
triprolidine HCl/phenylephrine HCl/codeine phosphate	Histex-AC
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Dr Manzanilla DM
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Histex DM
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Miclara DM
triprolidine HCl/phenylephrine/dextromethorphan/acetaminophen	Child Mucinex Freefrom Nt Cold
triprolidine HCl/phenylephrine/dextromethorphan/acetaminophen	Mucinex Freefrom Nt Cold-Flu
triprolidine HCl/phenylephrine/dextromethorphan/acetaminophen	Mucinex Nightshft Cold-Flu Clr

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Generic Name	Brand Name
triprolidine HCl/phenylephrine/dextromethorphan/acetaminophen	Mucinex Nightshift Sevr Cld-Flu
triprolidine HCl/phenylephrine/dextromethorphan/acetaminophen	Mucinex Nightshift Sinus
triprolidine HCl/pseudoephedrine HCl	A-Phedrin
triprolidine HCl/pseudoephedrine HCl	Acta-Tabs
triprolidine HCl/pseudoephedrine HCl	Actanol
triprolidine HCl/pseudoephedrine HCl	Actedril
triprolidine HCl/pseudoephedrine HCl	Actifed
triprolidine HCl/pseudoephedrine HCl	Actifed Cold-Allergy
triprolidine HCl/pseudoephedrine HCl	Active
triprolidine HCl/pseudoephedrine HCl	Allerfed
triprolidine HCl/pseudoephedrine HCl	Allerfrim
triprolidine HCl/pseudoephedrine HCl	Altafed
triprolidine HCl/pseudoephedrine HCl	Antihist/Nasal
triprolidine HCl/pseudoephedrine HCl	Antihistamine
triprolidine HCl/pseudoephedrine HCl	Antihistamine Decongestant
triprolidine HCl/pseudoephedrine HCl	Antihistamine Nasal Decongest
triprolidine HCl/pseudoephedrine HCl	Antihistamine W/Decongestant
triprolidine HCl/pseudoephedrine HCl	Antihisttabs
triprolidine HCl/pseudoephedrine HCl	Aphedrid
triprolidine HCl/pseudoephedrine HCl	Aphedrid Cold and Allergy
triprolidine HCl/pseudoephedrine HCl	Aprodine
triprolidine HCl/pseudoephedrine HCl	Atrogen
triprolidine HCl/pseudoephedrine HCl	Biofed-PE
triprolidine HCl/pseudoephedrine HCl	Cold and Allergy(triprolidine)
triprolidine HCl/pseudoephedrine HCl	Cold-Allergy-Sinus
triprolidine HCl/pseudoephedrine HCl	Decongestant
triprolidine HCl/pseudoephedrine HCl	Decongestant 12 hour
triprolidine HCl/pseudoephedrine HCl	Decongestant-Anitihistamine
triprolidine HCl/pseudoephedrine HCl	Ed A-Hist PSE
triprolidine HCl/pseudoephedrine HCl	Entre-Hist PSE
triprolidine HCl/pseudoephedrine HCl	Genac
triprolidine HCl/pseudoephedrine HCl	Hist-PSE
triprolidine HCl/pseudoephedrine HCl	Hista-Tabs
triprolidine HCl/pseudoephedrine HCl	Histafed
triprolidine HCl/pseudoephedrine HCl	Lofed
triprolidine HCl/pseudoephedrine HCl	Maxi-Tuss TR
triprolidine HCl/pseudoephedrine HCl	Maxifed TR
triprolidine HCl/pseudoephedrine HCl	Nasal Decongest-Antihistamine
triprolidine HCl/pseudoephedrine HCl	Nasal Decongestant
triprolidine HCl/pseudoephedrine HCl	Nasal Decongestant-Antihist
triprolidine HCl/pseudoephedrine HCl	Pediatex TD
triprolidine HCl/pseudoephedrine HCl	Pseudo-Trip
triprolidine HCl/pseudoephedrine HCl	Ridifed
triprolidine HCl/pseudoephedrine HCl	Ritifed
triprolidine HCl/pseudoephedrine HCl	Silafed
triprolidine HCl/pseudoephedrine HCl	Sudafed Sinus Nighttime
triprolidine HCl/pseudoephedrine HCl	Suphedrine Max Str Sinus Nite

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
triprolidine HCl/pseudoephedrine HCl	Tri-Afed Allergy/Head Cold
triprolidine HCl/pseudoephedrine HCl	Tri-Fed
triprolidine HCl/pseudoephedrine HCl	Tri-Phed
triprolidine HCl/pseudoephedrine HCl	Tri-Pseudaphed
triprolidine HCl/pseudoephedrine HCl	Tri-Pseudated
triprolidine HCl/pseudoephedrine HCl	Tri-Pseudo
triprolidine HCl/pseudoephedrine HCl	Tri-Sudo
triprolidine HCl/pseudoephedrine HCl	Triacin
triprolidine HCl/pseudoephedrine HCl	Triafed
triprolidine HCl/pseudoephedrine HCl	Trifed
triprolidine HCl/pseudoephedrine HCl	Trifedrine
triprolidine HCl/pseudoephedrine HCl	Trioled
triprolidine HCl/pseudoephedrine HCl	Trip-PSE
triprolidine HCl/pseudoephedrine HCl	Triphed
triprolidine HCl/pseudoephedrine HCl	Tripohist D
triprolidine HCl/pseudoephedrine HCl	Triposed
triprolidine HCl/pseudoephedrine HCl	Triptifed
triprolidine HCl/pseudoephedrine HCl	Trisofed
triprolidine HCl/pseudoephedrine HCl	Trisudex
triprolidine HCl/pseudoephedrine HCl	Trymine D
triprolidine HCl/pseudoephedrine HCl	Uni-Fed
triprolidine HCl/pseudoephedrine HCl	Wal-Act D Cold and Allergy
triprolidine HCl/pseudoephedrine HCl	Zymine-D
triprolidine HCl/pseudoephedrine HCl	triprolidine-pseudoephedrine
triprolidine HCl/pseudoephedrine HCl/acetaminophen	Actifed Cold and Sinus
triprolidine HCl/pseudoephedrine HCl/acetaminophen	Nasal Decongestant-Antihist
triprolidine HCl/pseudoephedrine HCl/chlophedianol HCl	Trymine CD
triprolidine HCl/pseudoephedrine HCl/dextromethorphan HBr	Pediatex TDM
triprolidine polistirex/pseudoephedrine polistirex	Pediatex PS
triprolidine tannate	Zymine XR
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Child Mucinex Freefrom MS D-N
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Fast-Max Cold-Nightshft
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Fast-Max Cong-Nightshft
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Fast-Max Nightshft Clr
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Freefrom Cold-Flu D-N
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Sinus-Max Day-Night
triprolidine/phenylephrine/dextromethorphan/acetamin/guaifenes	Mucinex Sinus-Max Nightshift
Glucocorticoids	
HYDROCORTISONE	First-Hydrocortisone
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred Plus
acyclovir/hydrocortisone	Xerese
alclometasone dipropionate	Aclovate
alclometasone dipropionate	alclometasone
amcinonide	Cyclocort
amcinonide	amcinonide
beclomethasone dipropionate	Beclovent

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
beclomethasone dipropionate	Beclovent Refill
beclomethasone dipropionate	Qvar
beclomethasone dipropionate	Qvar RediHaler
beclomethasone dipropionate	Vanceril
beclomethasone dipropionate	Vanceril Double Strength
benzoyl peroxide/hydrocortisone	Bencort
benzoyl peroxide/hydrocortisone	Vanoxide-HC
benzoyl peroxide/hydrocortisone/skin cleanser comb no.14	Bencort
benzoyl peroxide/hydrocortisone/skin cleanser comb no.14	Vanoxide-HC
betamethasone	Celestone
betamethasone acetate and sodium phos in sterile water/PF	betameth ac,sod phos(PF)-water
betamethasone acetate/betamethasone sodium phosphate	BSP-0820
betamethasone acetate/betamethasone sodium phosphate	Beta-1
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
betamethasone acetate/betamethasone sodium phosphate	Pod-Care 100C
betamethasone acetate/betamethasone sodium phosphate	ReadySharp Betamethasone
betamethasone acetate/betamethasone sodium phosphate	betamethasone acet,sod phos
betamethasone acetate/betamethasone sodium phosphate/water	betamethasone ace,sod phos-wtr
betamethasone dipropionate	Alphatrex
betamethasone dipropionate	Diprolene
betamethasone dipropionate	Diprosone
betamethasone dipropionate	Maxivate
betamethasone dipropionate	Sernivo
betamethasone dipropionate	betamethasone dipropionate
betamethasone dipropionate	betamethasone, augmented
betamethasone dipropionate/propylene glycol	Diprolene (augmented)
betamethasone dipropionate/propylene glycol	Diprolene AF
betamethasone dipropionate/propylene glycol	betamethasone, augmented
betamethasone sodium phos/chondroitin sulfate A sodium/PF	Klarity-B (betameth-chond)(PF)
betamethasone sodium phosph in sterile water for injection	betamethasone sod phosph-water
betamethasone sodium phosphate	Adbeon
betamethasone sodium phosphate	Celestone
betamethasone sodium phosphate	betamethasone sodium phosphate
betamethasone valerate	Beta-Val
betamethasone valerate	Betatrex
betamethasone valerate	Luxiq
betamethasone valerate	betamethasone valerate
budesonide	Entocort EC
budesonide	Ortikos
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	Pulmicort Turbuhaler
budesonide	Tarpeyo
budesonide	Uceris
budesonide	budesonide
budesonide/formoterol fumarate	Symbicort
budesonide/formoterol fumarate	budesonide-formoterol

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
bupivacaine HCl/dexamethasone sodium phos in sterile water	bupivacaine-dexameth in water
calcipotriene/betamethasone dipropionate	Enstilar
calcipotriene/betamethasone dipropionate	Taclonex
calcipotriene/betamethasone dipropionate	Taclonex Scalp
calcipotriene/betamethasone dipropionate	Wynzora
calcipotriene/betamethasone dipropionate	calcipotriene-betamethasone
chlorcyclizine HCl/hydrocortisone acetate	Mantadil
chloroxylonol/benzocaine/hydrocortisone acetate	MyOxin
chloroxylonol/benzocaine/hydrocortisone acetate	TriOxin
ciclesonide	Alvesco
ciclopirox olamine/clobetasol propionate	Haxchlo
ciclopirox olamine/clobetasol propionate	ciclopirox-clobetasol
ciclopirox olamine/clobetasol propionate/salicylic acid	ciclopirox-clobetasol-salicyl
ciclopirox/triamcinolone acetoneide	Trilociclo
ciprofloxacin HCl/dexamethasone	Ciprodex
ciprofloxacin HCl/dexamethasone	ciprofloxacin-dexamethasone
ciprofloxacin HCl/fluocinolone acetoneide	Otovel
ciprofloxacin HCl/fluocinolone acetoneide	ciprofloxacin-fluocinolone
ciprofloxacin HCl/hydrocortisone	Cipro HC
clioquinol/hydrocortisone	Ala-Quin
clioquinol/hydrocortisone	Albaform HC
clioquinol/hydrocortisone	Corque
clioquinol/hydrocortisone	Iodochlorhydroxyquin-HC
clioquinol/hydrocortisone	clioquinol-hydrocortisone
clioquinol/hydrocortisone/emollient combination no.88	Dermasorb AF Complete Kit
clioquinol/hydrocortisone/pramoxine	Pricort
clobetasol propionate	Clobevate
clobetasol propionate	Clobex
clobetasol propionate	Clodan
clobetasol propionate	Cormax
clobetasol propionate	Embeline
clobetasol propionate	Impeklo
clobetasol propionate	Impoyz
clobetasol propionate	Olux
clobetasol propionate	Temovate
clobetasol propionate	clobetasol
clobetasol propionate/calcipotriene	Diochloy
clobetasol propionate/calcipotriene	clobetasol-calcipotriene
clobetasol propionate/coal tar	Clobeta+Plus
clobetasol propionate/coal tar	clobetasol-coal tar
clobetasol propionate/emollient base	Embeline E
clobetasol propionate/emollient base	Olux-E
clobetasol propionate/emollient base	Olux-Olux-E
clobetasol propionate/emollient base	Olux-Olux-E (100/10)
clobetasol propionate/emollient base	Olux-Olux-E (50/50)
clobetasol propionate/emollient base	Temovate E

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
clobetasol propionate/emollient base	Tovet Emollient
clobetasol propionate/emollient base	clobetasol-emollient
clobetasol propionate/emollient combination no.65	Tovet Kit
clobetasol propionate/gauze bandage/silicone, adhesive	Tasoprol
clobetasol propionate/hydrocolloid dressing	Clobetavix
clobetasol propionate/levocetirizine dihydrochloride	clobetasol-levocetirizine
clobetasol propionate/niacinamide	Chlooxia
clobetasol propionate/niacinamide	clobetasol-niacinamide
clobetasol propionate/skin cleanser combination no.28	Clodan Kit
clocortolone pivalate	Cloderm
clocortolone pivalate	clocortolone pivalate
clotrimazole/betamethasone dipropionate	Lotrisone
clotrimazole/betamethasone dipropionate	clotrimazole-betamethasone
clotrimazole/betamethasone dipropionate/zinc oxide	DermacinRx Therazole Pak
cortisone acetate	Cortone
cortisone acetate	cortisone
deflazacort	Emflaza
desonide	Delonide
desonide	DesOwen
desonide	DesRx
desonide	Desonate
desonide	LoKara
desonide	Tridesilon
desonide	Verdeso
desonide	desonide
desonide/emollient combination no. 28	DesOwen
desonide/emollient combination no.3	Desonil
desonide/emollient combination no.3	Desonil + Plus
desonide/emollient combination no.30	DesOwen Cream and Lotion
desonide/emollient combination no.30	DesOwen Ointment and Lotion
desoximetasone	Topicort
desoximetasone	Topicort LP
desoximetasone	desoximetasone
desoximetasone/niacinamide	desoximetasone-niacinamide
dexamethasone	Baycadron
dexamethasone	Decadron
dexamethasone	Decadron Dose Pack
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dexabliss
dexamethasone	Dexamethasone Intensol
dexamethasone	Dexone
dexamethasone	Dextenza
dexamethasone	Dxevo
dexamethasone	Hemady
dexamethasone	Hexadrol

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Generic Name	Brand Name
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	Maxidex
dexamethasone	Ozurdex
dexamethasone	TaperDex
dexamethasone	ZCort
dexamethasone	Zema-Pak
dexamethasone	ZoDex
dexamethasone	ZonaCort
dexamethasone	dexamethasone
dexamethasone acetate	Adrenocot LA
dexamethasone acetate	Dalalone D.P.
dexamethasone acetate	Dalalone LA
dexamethasone acetate	De-Sone LA
dexamethasone acetate	Decaject
dexamethasone acetate	Dexacen LA-8
dexamethasone acetate	Dexasone LA
dexamethasone acetate	Dexone LA
dexamethasone acetate	Solurex LA
dexamethasone acetate	dexamethasone acetate
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 phosphate	Primethasone
dexamethasone sod ph/moxifloxacin HCl in NaCl,iso-osmotic/PF	dexameth-moxiflox(PF)-NaCl,iso
dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor/PF	dexamet-moxifl-ketoro-NaCl(PF)
dexamethasone sodium phosphate	AK-Dex
dexamethasone sodium phosphate	Adrenocot
dexamethasone sodium phosphate	Cpc-Cort-D
dexamethasone sodium phosphate	Dalalone
dexamethasone sodium phosphate	Decadron Phosphate
dexamethasone sodium phosphate	Decaject
dexamethasone sodium phosphate	Dexair
dexamethasone sodium phosphate	Dexasol
dexamethasone sodium phosphate	Dexasone 10
dexamethasone sodium phosphate	Dexasone 4
dexamethasone sodium phosphate	Dexone
dexamethasone sodium phosphate	Dexonto
dexamethasone sodium phosphate	ReadySharp dexamethasone
dexamethasone sodium phosphate	Solurex
dexamethasone sodium phosphate	dexamethasone sodium phosphate
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone sodium phosphate/PF	Active Injection Kit D (PF)
dexamethasone sodium phosphate/PF	DoubleDex (PF)
dexamethasone sodium phosphate/PF	MAS Care-Pak (PF)
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
dexamethasone/PF	Dexycu (PF)

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
diflorasone diacetate	ApexiCon
diflorasone diacetate	Florone
diflorasone diacetate	Maxiflor
diflorasone diacetate	Psorcon
diflorasone diacetate	diflorasone
diflorasone diacetate/emollient base	ApexiCon E
diflorasone diacetate/emollient base	Florone-E
diflorasone diacetate/emollient base	Psorcon E
difluprednate	Durezol
difluprednate	difluprednate
diphenhydramine HCl/hydrocortisone	HC Derma-Pax
econazole nitrate/triamcinolone acetonide	Triamazole
flunisolide	Aerobid
flunisolide	Aerospan
flunisolide/menthol	Aerobid-M
fluocinolone acetonide	Capex
fluocinolone acetonide	Derma-Smoothe/FS
fluocinolone acetonide	Derma-Smoothe/FS Body Oil
fluocinolone acetonide	Derma-Smoothe/FS Eczema
fluocinolone acetonide	FS Shampoo
fluocinolone acetonide	Iluvien
fluocinolone acetonide	Retisert
fluocinolone acetonide	Synalar
fluocinolone acetonide	Synalar-HP
fluocinolone acetonide	Yutiq
fluocinolone acetonide	fluocinolone
fluocinolone acetonide oil	DermOtic Oil
fluocinolone acetonide oil	Flac Otic Oil
fluocinolone acetonide oil	fluocinolone acetonide oil
fluocinolone acetonide/emollient base	Derma-Smoothe/FS Atopic Pak
fluocinolone acetonide/emollient base	Synemol
fluocinolone acetonide/emollient combination no.65	Synalar Cream Kit
fluocinolone acetonide/emollient combination no.65	Synalar Ointment Kit
fluocinolone acetonide/niacinamide	fluocinolone-niacinamide
fluocinolone acetonide/shower cap	Derma-Smoothe/FS Scalp Oil
fluocinolone acetonide/shower cap	fluocinolone and shower cap
fluocinolone acetonide/skin cleanser comb no.28	Synalar TS
fluocinolone acetonide/skin cleanser no.10/silicone, tape	Xilapak
fluocinolone acetonide/urea/silicone, adhesive	Noxipak
fluocinonide	Fluex
fluocinonide	Lidex
fluocinonide	Vanos
fluocinonide	fluocinonide
fluocinonide/dimethicone	Fluopar
fluocinonide/emollient base	Fluocinonide-E
fluocinonide/emollient base	Lidex-E
fluocinonide/emollient base	fluocinonide-emollient

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
fluocinonide/silicone, adhesive	Fluovix
fluocinonide/silicone, adhesive	Fluovix Plus
fluorometholone	FML Forte
fluorometholone	FML Liquifilm
fluorometholone	FML S.O.P.
fluorometholone	Fluor-Op
fluorometholone	fluorometholone
fluorometholone acetate	Eflone
fluorometholone acetate	Flarex
flurandrenolide	Cordran
flurandrenolide	Cordran Patch
flurandrenolide	Cordran SP
flurandrenolide	Cordran Tape Large Roll
flurandrenolide	Cordran Tape Small Roll
flurandrenolide	Nolix
flurandrenolide	flurandrenolide
fluticasone furoate	Arnuity Ellipta
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone furoate/vilanterol trifenate	fluticasone furoate-vilanterol
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	ArmonAir RespiClick
fluticasone propionate	Beser
fluticasone propionate	Cutivate
fluticasone propionate	Flovent
fluticasone propionate	Flovent Diskus
fluticasone propionate	Flovent HFA
fluticasone propionate	Flovent Rotadisk
fluticasone propionate	fluticasone propionate
fluticasone propionate/emollient combination no.65	Beser Kit
fluticasone propionate/salmeterol xinafoate	Advair Diskus
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
gatifloxacin/dexamethasone sodium phosphate	gatifloxacin-dexamethasone
gentamicin sulfate/prednisolone acetate	Pred-G
gentamicin sulfate/prednisolone acetate	Pred-G S.O.P.
halcinonide	Halog
halcinonide	halcinonide
halcinonide/emollient base	Halog-E
halobetasol propionate	Bryhali
halobetasol propionate	Lexette
halobetasol propionate	Ultravate
halobetasol propionate	halobetasol propionate
halobetasol propionate/ammonium lactate	Halac

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
halobetasol propionate/ammonium lactate	Halonate
halobetasol propionate/ammonium lactate	Halonate Pac
halobetasol propionate/ammonium lactate	Ultravate PAC
halobetasol propionate/lactic acid	Ultravate X
halobetasol propionate/tazarotene	Duobrii
hydrocortisone	Acticort 100
hydrocortisone	Advanced Allergy Collect Kit
hydrocortisone	Ala-Cort
hydrocortisone	Ala-Scalp
hydrocortisone	Albacort
hydrocortisone	Alkindi Sprinkle
hydrocortisone	Anti-Itch (HC)
hydrocortisone	Anusol-HC
hydrocortisone	Aquanil HC
hydrocortisone	Aquaphor Itch Relief
hydrocortisone	Balneol For Her
hydrocortisone	Beta-HC
hydrocortisone	Cetacort
hydrocortisone	Colocort
hydrocortisone	Complex A
hydrocortisone	Cortaid
hydrocortisone	Cortaid FastStick Max St
hydrocortisone	Cortaid Intensive Therapy
hydrocortisone	Cortaid Maximum Strength
hydrocortisone	Cortef
hydrocortisone	Cortenema
hydrocortisone	Corticool
hydrocortisone	Cortinal
hydrocortisone	Cortisone (hydrocortisone)
hydrocortisone	Cortisone Cooling
hydrocortisone	Cortizone For Kids
hydrocortisone	Cortizone-10
hydrocortisone	Cortizone-10 Anal Itch Relief
hydrocortisone	Cortizone-10 Plus
hydrocortisone	Cortizone-5
hydrocortisone	Cotacort
hydrocortisone	Dermacort
hydrocortisone	Dermarest Eczema (hydrocort)
hydrocortisone	Dermolate Anti-Itch
hydrocortisone	Dr. Smith's Anti-Itch
hydrocortisone	Eczema Anti-Itch
hydrocortisone	HydroSkin
hydrocortisone	Hydrocortisone Plus
hydrocortisone	Hydrocortisone Plus 12
hydrocortisone	Hydrocortisone Scalp
hydrocortisone	Hydrocortone
hydrocortisone	Hydrocream

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocortisone	Hytone
hydrocortisone	ITCH-X
hydrocortisone	Instacort
hydrocortisone	Instacort Scalp
hydrocortisone	Itch-X HC
hydrocortisone	LactiCare-HC
hydrocortisone	Monistat Care (hydrocortisone)
hydrocortisone	Neosporin Anti-Itch
hydrocortisone	Neutrogena T/Scalp
hydrocortisone	Noble Formula HC
hydrocortisone	Nupercainal HC
hydrocortisone	Nutracort
hydrocortisone	Obagi Nu-Derm Tolereen
hydrocortisone	P.P.C.
hydrocortisone	Penecort
hydrocortisone	Preparation H Hydrocortisone
hydrocortisone	Procto-Kit
hydrocortisone	Procto-Med HC
hydrocortisone	Procto-Pak
hydrocortisone	ProctoCare-HC
hydrocortisone	ProctoCream-HC
hydrocortisone	Proctocort
hydrocortisone	Proctosol HC
hydrocortisone	Proctozone-HC
hydrocortisone	Recort Plus
hydrocortisone	Rederm
hydrocortisone	Sarnol-HC
hydrocortisone	Scalacort
hydrocortisone	Scalp Relief
hydrocortisone	Scalp-Cort
hydrocortisone	Scalpicin Anti-Itch
hydrocortisone	Summer's Eve
hydrocortisone	Texacort
hydrocortisone	Yeast-X External
hydrocortisone	hydrocortisone
hydrocortisone acetate	Anu-Med
hydrocortisone acetate	Anu-Med HC
hydrocortisone acetate	Anucort-HC
hydrocortisone acetate	Anudil HC
hydrocortisone acetate	Anumed HC
hydrocortisone acetate	Anurx-HC
hydrocortisone acetate	Anusert HC-1
hydrocortisone acetate	Anusol HC-1
hydrocortisone acetate	Anusol-HC
hydrocortisone acetate	Anuzone-HC
hydrocortisone acetate	Cortaid (hydrocortisone acet)
hydrocortisone acetate	Cortaid Maximum Strength

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocortisone acetate	Corticaine
hydrocortisone acetate	Corticreme
hydrocortisone acetate	Cortifoam
hydrocortisone acetate	Demarest Dricort
hydrocortisone acetate	GRx HiCort 25
hydrocortisone acetate	Gynecort
hydrocortisone acetate	Gynecort Maximum Strength
hydrocortisone acetate	HC-1% Hemorrhoid
hydrocortisone acetate	Hemmorex-HC
hydrocortisone acetate	Hemorrhoidal-HC
hydrocortisone acetate	Hemril-30
hydrocortisone acetate	Hemril-HC
hydrocortisone acetate	LanaCort
hydrocortisone acetate	Medi-Cortisone
hydrocortisone acetate	MiCort-HC
hydrocortisone acetate	Proctocort
hydrocortisone acetate	Proctosert HC
hydrocortisone acetate	Proctosol
hydrocortisone acetate	Proctozone H
hydrocortisone acetate	Rectacort-HC
hydrocortisone acetate	Rectasol-HC
hydrocortisone acetate	Tucks Hydrocortisone
hydrocortisone acetate	Vanicream HC
hydrocortisone acetate	hydrocortisone acetate
hydrocortisone acetate/aloe polysaccharide/iodoquinol	Hydro-Iodoquinol 2-1
hydrocortisone acetate/aloe polysaccharide/iodoquinol	Lodocortisone Aloe
hydrocortisone acetate/aloe vera	Cortaid with Aloe
hydrocortisone acetate/aloe vera	Cortalo
hydrocortisone acetate/aloe vera	Hydrocortisone Acetate-Aloe
hydrocortisone acetate/aloe vera	LanaCort
hydrocortisone acetate/aloe vera	Nucort
hydrocortisone acetate/aloe vera	Nuzon
hydrocortisone acetate/aloe vera	hydrocortisone acet-aloe vera
hydrocortisone acetate/iodoquinol/aloe polysaccharides no.2	Alcortin A
hydrocortisone acetate/iodoquinol/aloe polysaccharides no.2	hydrocortisone-iodoquinol-aloe2
hydrocortisone acetate/iodoquinol/aloe vera	Vytone
hydrocortisone acetate/iodoquinol/aloe vera	hydrocortisone-iodoquinol-aloe
hydrocortisone acetate/lidocaine HCl/aloe vera	Ana-Lex HC
hydrocortisone acetate/lidocaine HCl/aloe vera	Ana-Lex Kit
hydrocortisone acetate/lidocaine HCl/aloe vera	AnaMantle HC
hydrocortisone acetate/lidocaine HCl/aloe vera	Lidocort (with aloe)
hydrocortisone acetate/lidocaine HCl/aloe vera	Peranex HC
hydrocortisone acetate/lidocaine HCl/aloe vera	RectaGel HC
hydrocortisone acetate/lidocaine HCl/aloe vera	lidocaine-hydrocortisone-aloe
hydrocortisone acetate/lidocaine HCl/skin cleanser no.6	Xyralid
hydrocortisone acetate/lidocaine HCl/skin cleanser no.6	Xyralid LP
hydrocortisone acetate/pramoxine HCl	Analpram-HC

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocortisone acetate/pramoxine HCl	Analpram-HC Singles
hydrocortisone acetate/pramoxine HCl	EndaRoid
hydrocortisone acetate/pramoxine HCl	Enzone
hydrocortisone acetate/pramoxine HCl	Epifoam
hydrocortisone acetate/pramoxine HCl	HC Pram
hydrocortisone acetate/pramoxine HCl	HC Pramoxine
hydrocortisone acetate/pramoxine HCl	Mezparox-HC
hydrocortisone acetate/pramoxine HCl	Novacort
hydrocortisone acetate/pramoxine HCl	PramCort
hydrocortisone acetate/pramoxine HCl	Pramosone
hydrocortisone acetate/pramoxine HCl	Procort
hydrocortisone acetate/pramoxine HCl	ProctoCream-HC(with pramoxine)
hydrocortisone acetate/pramoxine HCl	Proctofoam HC
hydrocortisone acetate/pramoxine HCl	Zone-A
hydrocortisone acetate/pramoxine HCl	Zone-A Forte
hydrocortisone acetate/pramoxine HCl	hydrocortisone-pramoxine
hydrocortisone acetate/pramoxine HCl/aloe polysaccharide	Hydropramox
hydrocortisone acetate/pramoxine HCl/aloe polysaccharide	Novacort (with aloe)
hydrocortisone acetate/pramoxine HCl/emollient base	Pramosone E
hydrocortisone acetate/pramoxine HCl/skin cleanser no.16	Pram-HCA
hydrocortisone acetate/pramoxine HCl/skin cleanser no.16	Z-Pram
hydrocortisone acetate/pramoxine HCl/skin cleanser no.16	Zypram
hydrocortisone acetate/pramoxine/emollient/pramoxine cmb no1	Analpram E
hydrocortisone acetate/pramoxine/emollient/pramoxine cmb no1	hydrocortisone-pramox-e-pram.1
hydrocortisone acetate/urea	CARMOL HC
hydrocortisone acetate/urea	Keratol HC
hydrocortisone acetate/urea	U-Cort
hydrocortisone butyrate	Locoid
hydrocortisone butyrate	hydrocortisone butyrate
hydrocortisone butyrate/emollient base	Locoid Lipocream
hydrocortisone butyrate/emollient base	hydrocortisone butyr-emollient
hydrocortisone cypionate	Cortef (as cypionate)
hydrocortisone probutate	Pandel
hydrocortisone sod phosphate	Hydrocortone
hydrocortisone sodium succinate	A-Hydrocort
hydrocortisone sodium succinate	Solu-Cortef
hydrocortisone sodium succinate	Solu-Cortef Act-O-Vial
hydrocortisone sodium succinate	hydrocortisone sod succinate
hydrocortisone sodium succinate/PF	Solu-Cortef Act-O-Vial (PF)
hydrocortisone valerate	Westcort
hydrocortisone valerate	hydrocortisone valerate
hydrocortisone/acetic acid	Acetasol HC
hydrocortisone/acetic acid	Otomycet HC
hydrocortisone/acetic acid	Otosol-Hc
hydrocortisone/acetic acid	VoSol-HC
hydrocortisone/acetic acid	hydrocortisone-acetic acid
hydrocortisone/aloe polysaccharide/iodoquinol	Alcortin

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocortisone/aloë vera	Anti-Itch(hydrocortisone)-Aloë
hydrocortisone/aloë vera	Cortisone with Aloë
hydrocortisone/aloë vera	Cortizone-10 with aloë
hydrocortisone/aloë vera	Hydrocortisone Plus
hydrocortisone/aloë vera	Hydroskin with Aloë
hydrocortisone/aloë vera	hydrocortisone-aloë vera
hydrocortisone/aloë vera/vit E acet/vitamins A and D	Anti-Itch (HC) with Aloë-Vit E
hydrocortisone/aloë vera/vit E acet/vitamins A and D	Anti-Itch Plus
hydrocortisone/benzocaine/chloroxylenol	Oto-Care HC
hydrocortisone/colloidal oatmeal/aloë/vitamin E	Anti-Itch (HC) with Oatmeal
hydrocortisone/colloidal oatmeal/aloë/vitamin E	Aveeno Anti-Itch (hydrocortsn)
hydrocortisone/colloidal oatmeal/aloë/vitamin E	hydrocortisone-oatmeal-aloë-E
hydrocortisone/emollient combination no.45	Pediaderm HC
hydrocortisone/iodoquinol	Corti-Sav
hydrocortisone/iodoquinol	Dermazene
hydrocortisone/iodoquinol	Vytone
hydrocortisone/iodoquinol	hydrocortisone-iodoquinol
hydrocortisone/mineral oil/petrolatum,white	hydrocortisone-min oil-wht pet
hydrocortisone/pramoxine HCl/chloroxylenol	Aero Otic HC
hydrocortisone/pramoxine HCl/chloroxylenol	Cortane-B
hydrocortisone/pramoxine HCl/chloroxylenol	Cortic
hydrocortisone/pramoxine HCl/chloroxylenol	Cortic-ND
hydrocortisone/pramoxine HCl/chloroxylenol	Cyotic
hydrocortisone/pramoxine HCl/chloroxylenol	Exotic-HC
hydrocortisone/pramoxine HCl/chloroxylenol	Genexotic-HC
hydrocortisone/pramoxine HCl/chloroxylenol	Ot-Ake HC
hydrocortisone/pramoxine HCl/chloroxylenol	Oti-Med
hydrocortisone/pramoxine HCl/chloroxylenol	OtiRx
hydrocortisone/pramoxine HCl/chloroxylenol	Oticin HC (BAK free)
hydrocortisone/pramoxine HCl/chloroxylenol	Oto-End 10
hydrocortisone/pramoxine HCl/chloroxylenol	Otomar
hydrocortisone/pramoxine HCl/chloroxylenol	Otomar-HC
hydrocortisone/pramoxine HCl/chloroxylenol	Otomax-HC
hydrocortisone/pramoxine HCl/chloroxylenol	Otozone
hydrocortisone/pramoxine HCl/chloroxylenol	Pramoxine-HC
hydrocortisone/pramoxine HCl/chloroxylenol	Tri-Otic
hydrocortisone/pramoxine HCl/chloroxylenol	Zolene HC
hydrocortisone/pramoxine HCl/chloroxylenol	Zoto-HC
hydrocortisone/pramoxine HCl/chloroxylenol/water	Cortane-B Aqueous
hydrocortisone/pramoxine HCl/chloroxylenol/water	Pramoxine-HC
hydrocortisone/pramoxine HCl/chloroxylenol/water	Zotane HC
hydrocortisone/pramoxine/chloroxylenol/benzalkonium	Alba-3 HC
hydrocortisone/pramoxine/chloroxylenol/benzalkonium	Hydro
hydrocortisone/pramoxine/chloroxylenol/benzalkonium	Oticin HC
hydrocortisone/resorcinol/bismuth subgallate/zinc oxide	Anusol-HC
hydrocortisone/resorcinol/bismuth subgallate/zinc oxide	HC-Bismuth Subgal-Znox-Resor
hydrocortisone/resorcinol/bismuth subgallate/zinc oxide	Hemorrhoidal with HC

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
hydrocortisone/resorcinol/bismuth subgallate/zinc oxide	Hemorrhoidal-HC (bismuth-zinc)
hydrocortisone/salicylic acid/sulfur	Coraz
hydrocortisone/salicylic acid/sulfur/shampoo no. 1	Scalacort DK
hydrocortisone/skin cleanser combination no.25	Aqua Glycolic HC
hydrocortisone/skin cleanser combination no.35	Dermasorb HC Complete Kit
hydrocortisone/yerba santa	EarSol-HC
ketoconazole/hydrocortisone	Ketocon + Plus
ketoconazole/hydrocortisone	Pheyo
ketoconazole/hydrocortisone	Xolegel Corepak
ketoconazole/hydrocortisone	ketoconazole-hydrocortisone
ketoconazole/iodoquinol/hydrocortisone	Pheodojo
ketoconazole/iodoquinol/hydrocortisone	ketoconazole-iodoquinol-hc
lidocaine HCl/hydrocortisone acetate	Ana-Lex
lidocaine HCl/hydrocortisone acetate	AnaMantle HC
lidocaine HCl/hydrocortisone acetate	AnaMantle HC Forte
lidocaine HCl/hydrocortisone acetate	LidaMantle HC
lidocaine HCl/hydrocortisone acetate	LidaZone HC
lidocaine HCl/hydrocortisone acetate	Lidocaine-HC
lidocaine HCl/hydrocortisone acetate	Lidocort
lidocaine HCl/hydrocortisone acetate	Peranex HC
lidocaine HCl/hydrocortisone acetate	Rectacreme HC
lidocaine HCl/hydrocortisone acetate	Senatec HC
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
loteprednol etabonate	Alrex
loteprednol etabonate	Eysuvis
loteprednol etabonate	Inveltys
loteprednol etabonate	Lotemax
loteprednol etabonate	Lotemax SM
loteprednol etabonate	loteprednol etabonate
loteprednol etabonate/chondroitin sulfate A sodium/PF	Klarity-L (lotepred-chond)(PF)
medrysone	Liquifilm
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Meprolone Unipak
methylprednisolone	Methylpred
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
methylprednisolone acetate	Adlone
methylprednisolone acetate	Cpc-Depmed-40
methylprednisolone acetate	Cpc-Depmed-80
methylprednisolone acetate	Dep-Medalone 40
methylprednisolone acetate	Dep-Medalone 80
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	Depo-Predate
methylprednisolone acetate	Depoject-40
methylprednisolone acetate	Depoject-80
methylprednisolone acetate	Depopred 40

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
methylprednisolone acetate	Depopred 80
methylprednisolone acetate	Medralone 40
methylprednisolone acetate	Medralone 80
methylprednisolone acetate	Methylcotolone
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80
methylprednisolone acetate	ReadySharp Methylprednisolone
methylprednisolone acetate	Rep-Pred 40
methylprednisolone acetate	Rep-Pred 80
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate in sodium chloride,iso-osmotic/PF	methylpred ac(PF)-NaCl,iso-osm
methylprednisolone acetate in sterile water for injection	methylprednisolone acet-water
methylprednisolone acetate/bupivacaine HCl	Physicians EZ Use M-Pred
methylprednisolone acetate/bupivacaine HCl in sterile water	methylprednisol ac-bupivac-wat
methylprednisolone sodium succinate	A-Methapred
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate	Elocon
mometasone furoate	mometasone
mometasone furoate/ammonium lactate	Momexin
mometasone furoate/ammonium lactate	Quinosone
mometasone furoate/dimethicone	Quinixil
mometasone furoate/formoterol fumarate	Dulera
neomycin sulf/colistin sul/hydrocortisone ac/thonzonium brom	Coly-Mycin S
neomycin sulf/colistin sul/hydrocortisone ac/thonzonium brom	Cortisporin-TC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	AK-Spore HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Antibiotic HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Cortisporin
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Cortomycin
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Neo-Poly-Bac-HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Neo-Polycin HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	Triple Antibiotic-HC
neomycin sulfate/bacitracin zinc/polymyxin B/hydrocortisone	neomycin-bacitracin-poly-HC
neomycin sulfate/colistin sulfate/hydrocortisone	Coly-Mycin S
neomycin sulfate/dexamethasone sodium phosphate	AK-Neo-Dex
neomycin sulfate/dexamethasone sodium phosphate	Neo-Decadron
neomycin sulfate/dexamethasone sodium phosphate	Neo-Dex
neomycin sulfate/dexamethasone sodium phosphate	Neo-Dexair
neomycin sulfate/dexamethasone sodium phosphate	neomycin-dexamethasone
neomycin sulfate/fluocinolone acetamide	Neo-Synalar
neomycin sulfate/fluocinolone acetamide/emollient comb no.65	Neo-Synalar Kit
neomycin sulfate/hydrocortisone	neomycin-hydrocortisone
neomycin sulfate/polymyxin B sulfate/buffers/hydrocortisone	Pediotic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	AK-Spore HC

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic Ear
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Antibiotic Otic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Aurobiotic-HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Bio-Cot
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cort-Biotic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortatrigen
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortisporin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Cortomycin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Lazersporin-C
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Octigen
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Oticin HC
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Otimar
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Otolidin
neomycin sulfate/polymyxin B sulfate/hydrocortisone	Otocort
neomycin sulfate/polymyxin B sulfate/hydrocortisone	UAD Otic
neomycin sulfate/polymyxin B sulfate/hydrocortisone	neomycin-polymyxin-HC
neomycin sulfate/polymyxin B sulfate/prednisolone	Poly-Pred
neomycin/bacitracin/polymyxin B/hydrocortisone	Cortisporin
neomycin/polymyxin B sulfate/dexamethasone	AK-Trol
neomycin/polymyxin B sulfate/dexamethasone	Dexacidin
neomycin/polymyxin B sulfate/dexamethasone	Dexacine
neomycin/polymyxin B sulfate/dexamethasone	Dexasporin
neomycin/polymyxin B sulfate/dexamethasone	Maxitrol
neomycin/polymyxin B sulfate/dexamethasone	Methadex
neomycin/polymyxin B sulfate/dexamethasone	Neo Poly Dex
neomycin/polymyxin B sulfate/dexamethasone	Poly-Dex
neomycin/polymyxin B sulfate/dexamethasone	W-Dnp
neomycin/polymyxin B sulfate/dexamethasone	neomycin-polymyxin B-dexameth
nystatin/triamcinolone acetonide	Myco-Triacet II
nystatin/triamcinolone acetonide	Mycogen II
nystatin/triamcinolone acetonide	Mycolog II
nystatin/triamcinolone acetonide	Mycosone II
nystatin/triamcinolone acetonide	Mycozin
nystatin/triamcinolone acetonide	Mytrex
nystatin/triamcinolone acetonide	N T A
nystatin/triamcinolone acetonide	N.G.T.
nystatin/triamcinolone acetonide	NTA
nystatin/triamcinolone acetonide	Tri-Statin II
nystatin/triamcinolone acetonide	nystatin-triamcinolone
oxytetracycline HCl/hydrocortisone acetate	Terra-Cortril
polymyxin B sulfate/hydrocortisone	Otobiotic
prednicarbate	Dermatop
prednicarbate	Dermatop E
prednicarbate	prednicarbate
prednisolone	Millipred
prednisolone	Millipred DP

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
prednisolone	Prelone
prednisolone	prednisolone
prednisolone acetate	Cotolone
prednisolone acetate	Econopred
prednisolone acetate	Econopred Plus
prednisolone acetate	Flo-Pred
prednisolone acetate	Key-Pred
prednisolone acetate	Omnipred
prednisolone acetate	Pred Forte
prednisolone acetate	Pred Mild
prednisolone acetate	Predalone 50
prednisolone acetate	Predicort-50
prednisolone acetate	Pri-Cortin 50
prednisolone acetate	UAD Pred
prednisolone acetate	prednisolone acetate
prednisolone acetate/PF	prednisolone acetate (PF)
prednisolone acetate/bromfenac sodium	prednisolone acetate-bromfenac
prednisolone acetate/gatifloxacin	prednisolone acet-gatifloxacin
prednisolone acetate/gatifloxacin/bromfenac sodium	prednisol ace-gatiflox-bromfen
prednisolone acetate/gatifloxacin/nepafenac	prednisolone-gatiflox-nepafen
prednisolone acetate/moxifloxacin HCl	prednisolone-moxifloxacin HCl
prednisolone acetate/moxifloxacin HCl/bromfenac sodium	prednisolone-moxiflox-bromfen
prednisolone acetate/moxifloxacin HCl/nepafenac	prednisolone-moxiflo-nepafenac
prednisolone acetate/nepafenac	prednisolone acetate-nepafenac
prednisolone sodium phosphate	AK-Pred
prednisolone sodium phosphate	Bubbli-Pred
prednisolone sodium phosphate	Inflamase Forte
prednisolone sodium phosphate	Inflamase Mild
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	Predair Forte
prednisolone sodium phosphate	Prednisol
prednisolone sodium phosphate	Veripred 20
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisolone sodium phosphate/bromfenac sodium	prednisolone sod ph-bromfenac
prednisolone sodium phosphate/gatifloxacin	prednisolone sod ph-gatifloxac
prednisolone sodium phosphate/gatifloxacin/bromfenac sodium	prednisoln sp-gatiflox-bromfen
prednisolone sodium phosphate/moxifloxacin HCl	prednisolone sod ph-moxiflox
prednisolone sodium phosphate/moxifloxacin HCl/bromfenac sod	prednisoln sp-moxiflox-bromfen
prednisone	Deltasone
prednisone	Deltasone Dose Pack
prednisone	Liquid Pred
prednisone	Meticorten
prednisone	Prednisone Intensol
prednisone	Rayos

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
prednisone	Sterapred
prednisone	Sterapred DS
prednisone	prednisone
pyrilamine/pheniramine/chlorpheniramine/hydrocortisone	Derma-Pax-HC
rimexolone	Vexol
sulfacetamide sodium/fluorometholone	FML-S Liquifilm
sulfacetamide sodium/prednisolone acetate	AK-Cide
sulfacetamide sodium/prednisolone acetate	Blephamide
sulfacetamide sodium/prednisolone acetate	Blephamide S.O.P.
sulfacetamide sodium/prednisolone acetate	Cetapred
sulfacetamide sodium/prednisolone acetate	Isopto Cetapred
sulfacetamide sodium/prednisolone acetate	Metimyd
sulfacetamide sodium/prednisolone acetate	Vasocine
sulfacetamide sodium/prednisolone acetate	sulfacetamide-prednisolone
sulfacetamide sodium/prednisolone sodium phosphate	Sulfapred
sulfacetamide sodium/prednisolone sodium phosphate	Sulster
sulfacetamide sodium/prednisolone sodium phosphate	Supred
sulfacetamide sodium/prednisolone sodium phosphate	Vasocidin
sulfacetamide sodium/prednisolone sodium phosphate	sulfacetamide-prednisolone
tobramycin/dexamethasone	TobraDex
tobramycin/dexamethasone	Tobradex ST
tobramycin/dexamethasone	tobramycin-dexamethasone
tobramycin/loteprednol etabonate	Zylet
triamcinolone	Aristo-Pak
triamcinolone	Aristocort
triamcinolone	triamcinolone
triamcinolone acetonide	Acetocot
triamcinolone acetonide	Aristocort HP
triamcinolone acetonide	Aristocort LP
triamcinolone acetonide	Aristocort R
triamcinolone acetonide	Arze-Ject-A
triamcinolone acetonide	Azmacort
triamcinolone acetonide	Cenocort A-40
triamcinolone acetonide	Cinalog
triamcinolone acetonide	Cinonide 40
triamcinolone acetonide	Kenaject
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Kenalog in Orabase
triamcinolone acetonide	Kenalog-40
triamcinolone acetonide	Kenalog-80
triamcinolone acetonide	Oralone
triamcinolone acetonide	P-Care K40
triamcinolone acetonide	P-Care K80
triamcinolone acetonide	Pod-Care 100K
triamcinolone acetonide	Pro-C-Dure 5
triamcinolone acetonide	Pro-C-Dure 6
triamcinolone acetonide	ReadySharp Triamcinolone

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
triamcinolone acetonide	Tac-3
triamcinolone acetonide	Tri-Kort
triamcinolone acetonide	Triacet
triamcinolone acetonide	Triam-A
triamcinolone acetonide	Triamonide 40
triamcinolone acetonide	Trianex
triamcinolone acetonide	Triderm
triamcinolone acetonide	Tritocin
triamcinolone acetonide	Zilretta
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide in 0.9 % sodium chloride	triamcinolone acetone-0.9% NaCl
triamcinolone acetonide/0.9% sodium chloride/PF	triamcinol ac (PF) in 0.9%NaCl
triamcinolone acetonide/PF	Triesence (PF)
triamcinolone acetonide/PF	Xipere (PF)
triamcinolone acetonide/bupivacaine/in 0.9% sodium chloride	triamcinol ace-bupiv-0.9% NaCl
triamcinolone acetonide/dimethicone	Ellzia Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaSilkRx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaWerx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	DermacinRx SilaPak
triamcinolone acetonide/dimethicone/silicone, adhesive	NuTriamRx
triamcinolone acetonide/dimethicone/silicone, adhesive	SanaDermRx
triamcinolone acetonide/dimethicone/silicone, adhesive	Sure Result Tac Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	Tri-Sila
triamcinolone acetonide/dimethicone/silicone, adhesive	TriHeal-80
triamcinolone acetonide/dimethicone/silicone, adhesive	TriADime-80
triamcinolone acetonide/dimethicone/silicone, adhesive	Trivix
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm TDPak
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm Trilasil Pak
triamcinolone acetonide/emollient combination no.45	Pediaderm TA
triamcinolone acetonide/emollient combination no.86	Dermasorb TA Complete Kit
triamcinolone acetonide/gauze bandage/silicone, adhesive	Sila III
triamcinolone acetonide/lidocaine HCl	EZ Use Joint-Tunnel-Trigger
triamcinolone acetonide/lidocaine HCl	Lidocilone I
triamcinolone acetonide/low sensitizing base	Aristocort A
triamcinolone acetonide/moxifloxacin HCl/water/PF	triamcinolon-moxiflox-watr(PF)
triamcinolone acetonide/niacinamide	triamcinolone-niacinamide
triamcinolone acetonide/silicones	DermacinRx SilaZone
triamcinolone acetonide/silicones	Dermazone
triamcinolone acetonide/silicones	SilaLite Pak
triamcinolone acetonide/silicones	Silazone-II
triamcinolone acetonide/skin clnsr6/Emollient 27	Zytopic
triamcinolone diacetate	Amcort
triamcinolone diacetate	Aristocort Forte
triamcinolone diacetate	Aristocort Intralesional
triamcinolone diacetate	Cenocort Forte Suspension
triamcinolone diacetate	Cinalone 40
triamcinolone diacetate	Triam Forte

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Generic Name	Brand Name
triamcinolone diacetate	Triamcot
triamcinolone diacetate	Tristoject
triamcinolone diacetate	U-Tri-Lone
triamcinolone diacetate	triamcinolone diacetate
triamcinolone diacetate in 0.9 % sodium chloride	triamcinolone diacet-0.9% NaCl
triamcinolone diacetate in 0.9 % sodium chloride/PF	triamcinolone dia(PF)-0.9%NaCl
triamcinolone hexacetonide	Aristospan Intra-Articular
triamcinolone hexacetonide	Aristospan Intralesional
triamcinolone hexacetonide	Hexatrione
Proton Pump Inhibitors	
LANSOPRAZOLE	FIRST-Lansoprazole
OMEPRAZOLE	FIRST-Omeprazole
OMEPRAZOLE	Omeprazole+SyrSpend SF Alka
aspirin/omeprazole	Yosprala
aspirin/omeprazole	aspirin-omeprazole
dexlansoprazole	Dexilant
dexlansoprazole	Kapidex
dexlansoprazole	dexlansoprazole
esomeprazole magnesium	Heartburn Treatment
esomeprazole magnesium	Nexium
esomeprazole magnesium	Nexium 24HR
esomeprazole magnesium	Nexium Packet
esomeprazole magnesium	esomeprazole magnesium
esomeprazole magnesium/glycerin	Esomep-EZS
esomeprazole sodium	Nexium IV
esomeprazole sodium	esomeprazole sodium
esomeprazole strontium	esomeprazole strontium
lansoprazole	Heartburn Relief 24 Hour
lansoprazole	Heartburn Treatment 24 Hour
lansoprazole	Prevacid
lansoprazole	Prevacid 24Hr
lansoprazole	Prevacid IV
lansoprazole	Prevacid SoluTab
lansoprazole	lansoprazole
lansoprazole/amoxicillin trihydrate/clarithromycin	Prevpac
lansoprazole/amoxicillin trihydrate/clarithromycin	amoxicil-clarithromy-lansopraz
lansoprazole/naproxen	PREVACID NapraPAC
naproxen/esomeprazole magnesium	Vimovo
naproxen/esomeprazole magnesium	naproxen-esomeprazole
omeprazole	Prilosec
omeprazole	omeprazole
omeprazole magnesium	Acid Reducer (omeprazole)
omeprazole magnesium	Prilosec
omeprazole magnesium	Prilosec OTC
omeprazole magnesium	omeprazole magnesium
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak

Appendix D. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
omeprazole/sodium bicarbonate	OmePPi
omeprazole/sodium bicarbonate	Zegerid
omeprazole/sodium bicarbonate	Zegerid OTC
omeprazole/sodium bicarbonate	omeprazole-sodium bicarbonate
pantoprazole sodium	Protonix
pantoprazole sodium	pantoprazole
rabeprazole sodium	AcipHex
rabeprazole sodium	AcipHex Sprinkle
rabeprazole sodium	rabeprazole

Appendix E. Specifications Defining General Parameters for this Request

The Sentinel Core Team has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) Pregnancy tool QRP version 10.3.2 with custom programming, to characterize linked and unlinked infants in the Mother-Infant Linkage (MIL) table in the Sentinel Distributed Database (SDD).

Query period (*bound by the delivery date*): 01/01/2000 - Most Recent

Coverage requirement: *Medical & Drug Coverage

Enrollment requirement prior to index date: 0 Days

Requirement post index date: 0 Days

Minimum enrollment requirement prior to delivery date: 301 Days

Enrollment gap: 45 Days

Pre-pregnancy period (*relative to pregnancy start date*): 0 Days

Mother's Age groups (*calculated at delivery date*): 10-54 years

Sex: Female only

Sex of infant: female, male, and other

Stratifications: A) Mother's age at delivery, B) mother's pre-delivery enrollment, C) infant's follow-up time

Output by gestational week: No

Restrictions: No

Envelope macro: *Reclassify encounters during inpatient stay as inpatient

Freeze data: No

Appendix E. Specifications Defining General Parameters for this Request

Pregnancy Episode Creation												Medical Product of Interest (MOI) Exposure Episode Creation
Scenario	Delivery Definition	Linkage Codes	Pregnancy Cohort Definition	Delivery Caresetting	Create Baseline Table?	Delivery Washout Period	Pregnancy Duration Definition (Pre/PostTerm Codes)	Allowed # of Days b-n Infant BD and Delivery date	Allowed gap between infant delivery and enrollment	Pre/Post-Term Code Evaluation Window Relative to Delivery Date	Pregnancy Duration in Absence of Pre/Post-Term Codes (ITT Days)	Exposure
1	Use MIL table	All linkage codes	*Cohort includes all valid pregnancy episodes during the query period	NA	*Yes	180	Use Pregnancy Algorithm Codes*	3 days	any	7 days	273 days	None

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.
 NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Appendix F. Specifications Defining Exclusion Parameters for this Request

Inclusion/Exclusion Criteria									
Description	Inclusion/ Exclusion Group	Criteria	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Number of Instances the Criteria Should be Found in Evaluation Period	Population to Which Inclusion/Exclusion Applies	Index Date to Define
									Inclusion/Exclusion Criteria
Linked infants Overall	Live birth delivery	*Exclusion	ANY	ANY	0	121	1	Mother claims (M)	Pregnancy start date (INDEXDT)

*Delivery washout and Live birth delivery exclusion result in an exclusion of pregnancies with evidence of a live birth delivery during the pregnancy period

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Infant Birth Year								
2000			N/A	N/A	0	0	N/A	N/A
2001			N/A	N/A	0	0	N/A	N/A
2002			N/A	N/A	0	0	N/A	N/A
2003			N/A	N/A	0	0	N/A	N/A
2004			N/A	N/A	0	0	N/A	N/A
2005			N/A	N/A	0	0	N/A	N/A
2006			N/A	N/A	0	0	N/A	N/A
2007			N/A	N/A	0	0	N/A	N/A
2008			N/A	N/A	0	0	N/A	N/A
2009			N/A	N/A	0	0	N/A	N/A
2010			N/A	N/A	0	0	N/A	N/A
2011			N/A	N/A	0	0	N/A	N/A
2012			N/A	N/A	0	0	N/A	N/A
2013			N/A	N/A	0	0	N/A	N/A
2014			N/A	N/A	0	0	N/A	N/A
2015			N/A	N/A	0	0	N/A	N/A
2016			N/A	N/A	0	0	N/A	N/A
2017			N/A	N/A	0	0	N/A	N/A
2018			N/A	N/A	0	0	N/A	N/A
2019			N/A	N/A	0	0	N/A	N/A
2020			N/A	N/A	0	0	N/A	N/A
2021			N/A	N/A	0	0	N/A	N/A
2022			N/A	N/A	0	0	N/A	N/A
Infant Sex								
Female			N/A	N/A	0	0	N/A	N/A
Male			N/A	N/A	0	0	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Infant Race categories								
American Indian or Alaska Native			N/A	N/A	0	0	N/A	N/A
Asian			N/A	N/A	0	0	N/A	N/A
Black or African American			N/A	N/A	0	0	N/A	N/A
Native Hawaiian or Pacific Islander			N/A	N/A	0	0	N/A	N/A
White			N/A	N/A	0	0	N/A	N/A
Mixed			N/A	N/A	0	0	N/A	N/A
Unknown			N/A	N/A	0	0	N/A	N/A
Infant Hispanic origin								
Hispanic or Latino			N/A	N/A	0	0	N/A	N/A
Not Hispanic or Latino			N/A	N/A	0	0	N/A	N/A
Unknown			N/A	N/A	0	0	N/A	N/A
Infant Mean Birth-Enrollment Gap (Days)			N/A	N/A	0	0	N/A	N/A
Infant Birth-Enrollment Gap Categories								
0 - 14 Days			N/A	N/A	0	0	N/A	N/A
15 - 30 Days			N/A	N/A	0	0	N/A	N/A
31 - 90 Days			N/A	N/A	0	0	N/A	N/A
> 90 Days			N/A	N/A	0	0	N/A	N/A
Infant Mean Continuous Enrollment (Days)			N/A	N/A	0	0	N/A	N/A
Infant Continuous Enrollment Categories								
≤ 30 Days			N/A	N/A	0	0	N/A	N/A
31 - 183 Days			N/A	N/A	0	0	N/A	N/A
184 - 365 Days			N/A	N/A	0	0	N/A	N/A
366 - 729 Days			N/A	N/A	0	0	N/A	N/A
≥ 730 Days			N/A	N/A	0	0	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Infant Birth Type								
Singleton	M	N/A	N/A	N/A	0	0	N/A	N/A
Multiples	M	N/A	N/A	N/A	0	0	N/A	N/A
Unknown	M	N/A	N/A	N/A	0	0	N/A	N/A
Mother Mean Age at Delivery (Years)	M	N/A	N/A	N/A	0	0	N/A	N/A
Mother Age at Delivery Categories								
10 - 17 Years	M	N/A	N/A	N/A	0	0	N/A	N/A
18 - 39 Years	M	N/A	N/A	N/A	0	0	N/A	N/A
40-54 Years	M	N/A	N/A	N/A	0	0	N/A	N/A
Mother Pre-Delivery Coverage								
< 391 Days	M	N/A	N/A	N/A	0	0	N/A	N/A
≥ 391 Days	M	N/A	N/A	N/A	0	0	N/A	N/A
Mean Gestational Age at Delivery (Days) ³	M	N/A	N/A	N/A	0	0	N/A	N/A
Delivery Status								
Pre-term (0-258 days gestation)	M	N/A	Pregnancy Algorithm	N/A	0	0	N/A	N/A
Term (259-280 days gestation)	M	N/A	Pregnancy Algorithm	N/A	0	0	N/A	N/A
Post-term (281-301 days)	M	N/A	Pregnancy Algorithm	N/A	0	0	N/A	N/A
Unknown Term	M	N/A	Pregnancy Algorithm	N/A	0	0	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Clinical Characteristics Identified by Searching Mother and Infant Record [0, 28 Days]								
Evidence of Neonatal Medication Administrations								
Antibiotic administration	MI	N/A	Any	Any	0	28	N/A	1
Ampicillin	MI	N/A	Any	Any	0	28	N/A	1
Gentamicin	MI	N/A	Any	Any	0	28	N/A	1
Cefotaxime	MI	N/A	Any	Any	0	28	N/A	1
Opioid administration	MI	N/A	Any	Any	0	28	N/A	1
Corticosteroid administration	MI	N/A	Any	Any	0	28	N/A	1
Surfactant administration	MI	N/A	Any	Any	0	28	N/A	1
Vitamin administration	MI	N/A	Any	Any	0	28	N/A	1
Vitamin K administration	MI	N/A	Any	Any	0	28	N/A	1
Evidence of Neonatal Outcomes								
Bronchopulmonary Dysplasia	MI	N/A	Any	Any	0	28	N/A	1
Fetal Alcohol Syndrome	MI	N/A	Any	Any	0	28	N/A	1
Low Birth Weight	MI	N/A	Any	Any	0	28	N/A	1
Necrotizing Enterocolitis	MI	N/A	Any	Any	0	28	N/A	1
Neonatal Abstinence Syndrome	MI	N/A	Any	Any	0	28	N/A	1
Neonatal Sepsis	MI	N/A	Any	Any	0	28	N/A	1
Retinopathy of Prematurity	MI	N/A	Any	Any	0	28	N/A	1
Respiratory Distress Syndrome	MI	N/A	Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Evidence of Medication Dispensings								
Antibiotics	MI	N/A	N/A	N/A	0	28	Days Supply	1
Anticonvulsants	MI	N/A	N/A	N/A	0	28	Days Supply	1
Antidiabetic agents	MI	N/A	N/A	N/A	0	28	Days Supply	1
Antihistamines	MI	N/A	N/A	N/A	0	28	Days Supply	1
Antihypertensives and Vasodialators	MI	N/A	N/A	N/A	0	28	Days Supply	1
Asthma medications	MI	N/A	N/A	N/A	0	28	Days Supply	1
Glucocorticoids	MI	N/A	N/A	N/A	0	28	Days Supply	1
Proton pump inhibitors	MI	N/A	N/A	N/A	0	28	Days Supply	1
Evidence of Immunizations								
Hepatitis B	MI	N/A	Any	Any	0	28	N/A	1
COVID - 19 Vaccine	MI	N/A	Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Evidence of Comorbidities								
Allergies, Hypersensitivities, and Allergic Reactions	MI	N/A	Any	Any	0	28	N/A	1
Anemia	MI	N/A	Any	Any	0	28	N/A	1
Asthma	MI	N/A	Any	Any	0	28	N/A	1
Cancer of the Brain & Other Parts of the CNS	MI	N/A	Any	Any	0	28	N/A	1
Cancer of the Lymphoid, Hematopoietic and Related	MI	N/A	Any	Any	0	28	N/A	1
Cancer, Other	MI	N/A	Any	Any	0	28	N/A	1
COVID -19	MI	N/A	Any	Any	0	28	N/A	1
Diabetes mellitus (DM)	MI	N/A	Any	Any	0	28	N/A	1
Epilepsy	MI	N/A	Any	Any	0	28	N/A	1
Gastroesophageal Reflux Disease (GERD)	MI	N/A	Any	Any	0	28	N/A	1
Hypertension	MI	N/A	Any	Any	0	28	N/A	1
Influenza	MI	N/A	Any	Any	0	28	N/A	1
Intellectual Disabilities and Related Conditions	MI	N/A	Any	Any	0	28	N/A	1
Irritable bowel syndrome	MI	N/A	Any	Any	0	28	N/A	1
Measles	MI	N/A	Any	Any	0	28	N/A	1
Meningitis	MI	N/A	Any	Any	0	28	N/A	1
Mumps	MI	N/A	Any	Any	0	28	N/A	1
Otitis Media	MI	N/A	Any	Any	0	28	N/A	1
Pertussis	MI	N/A	Any	Any	0	28	N/A	1
Pneumonia	MI	N/A	Any	Any	0	28	N/A	1
Rubella	MI	N/A	Any	Any	0	28	N/A	1
Sickle Cell Disease	MI	N/A	Any	Any	0	28	N/A	1
Sinusitis	MI	N/A	Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Clinical Characteristics Identified by Searching Infant Record Only [0, 28 Days]								
Evidence of Neonatal Medication Administrations								
Antibiotic administration			Any	Any	0	28	N/A	1
Ampicillin			Any	Any	0	28	N/A	1
Gentamicin			Any	Any	0	28	N/A	1
Cefotaxime			Any	Any	0	28	N/A	1
Opioid administration			Any	Any	0	28	N/A	1
Corticosteroid administration			Any	Any	0	28	N/A	1
Surfactant administration			Any	Any	0	28	N/A	1
Vitamin administration			Any	Any	0	28	N/A	1
Vitamin K administration			Any	Any	0	28	N/A	1
Evidence of Neonatal Outcomes								
Bronchopulmonary Dysplasia			Any	Any	0	28	N/A	1
Fetal Alcohol Syndrome			Any	Any	0	28	N/A	1
Low Birth Weight			Any	Any	0	28	N/A	1
Necrotizing Enterocolitis			Any	Any	0	28	N/A	1
Neonatal Abstinence Syndrome			Any	Any	0	28	N/A	1
Neonatal Sepsis			Any	Any	0	28	N/A	1
Retinopathy of Prematurity			Any	Any	0	28	N/A	1
Respiratory Distress Syndrome			Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Evidence of Medication Dispensings								
Antibiotics			N/A	N/A	0	28	Days Supply	1
Anticonvulsants			N/A	N/A	0	28	Days Supply	1
Antidiabetic agents			N/A	N/A	0	28	Days Supply	1
Antihistamines			N/A	N/A	0	28	Days Supply	1
Antihypertensives and Vasodialators			N/A	N/A	0	28	Days Supply	1
Asthma medications			N/A	N/A	0	28	Days Supply	1
Glucocorticoids			N/A	N/A	0	28	Days Supply	1
Proton pump inhibitors			N/A	N/A	0	28	Days Supply	1
Evidence of Immunizations								
Hepatitis B			Any	Any	0	28	N/A	1
COVID - 19 Vaccine			Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Evidence of Comorbidities								
Allergies, Hypersensitivities, and Allergic Reactions			Any	Any	0	28	N/A	1
Anemia			Any	Any	0	28	N/A	1
Asthma			Any	Any	0	28	N/A	1
Cancer of the Brain & Other Parts of the CNS			Any	Any	0	28	N/A	1
Cancer of the Lymphoid, Hematopoietic and Related			Any	Any	0	28	N/A	1
Cancer, Other			Any	Any	0	28	N/A	1
COVID-19			Any	Any	0	28	N/A	1
Diabetes mellitus (DM)			Any	Any	0	28	N/A	1
Epilepsy			Any	Any	0	28	N/A	1
Gastroesophageal Reflux Disease (GERD)			Any	Any	0	28	N/A	1
Hypertension			Any	Any	0	28	N/A	1
Influenza			Any	Any	0	28	N/A	1
Intellectual Disabilities and Related Conditions			Any	Any	0	28	N/A	1
Irritable bowel syndrome			Any	Any	0	28	N/A	1
Measles			Any	Any	0	28	N/A	1
Meningitis			Any	Any	0	28	N/A	1
Mumps			Any	Any	0	28	N/A	1
Otitis Media			Any	Any	0	28	N/A	1
Pertussis			Any	Any	0	28	N/A	1
Pneumonia			Any	Any	0	28	N/A	1
Rubella			Any	Any	0	28	N/A	1
Sickle Cell Disease			Any	Any	0	28	N/A	1
Sinusitis			Any	Any	0	28	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Clinical Characteristics Identified by Searching Infant Record Only [29, 365 Days]								
Evidence of Medication Dispensings								
Antibiotics			N/A	N/A	29	365	Days Supply	1
Anticonvulsants			N/A	N/A	29	365	Days Supply	1
Antidiabetic agents			N/A	N/A	29	365	Days Supply	1
Antihistamines			N/A	N/A	29	365	Days Supply	1
Antihypertensives and Vasodialators			N/A	N/A	29	365	Days Supply	1
Asthma medications			N/A	N/A	29	365	Days Supply	1
Glucocorticoids			N/A	N/A	29	365	Days Supply	1
Proton pump inhibitors			N/A	N/A	29	365	Days Supply	1
Evidence of Immunizations								
Hepatitis B			Any	Any	29	365	N/A	1
Rotavirus			Any	Any	29	365	N/A	1
Diphtheria, tetanus, acellular pertussis			Any	Any	29	365	N/A	1
Haemophilus influenza type B			Any	Any	29	365	N/A	1
Pneumococcal (PCV13 only)			Any	Any	29	365	N/A	1
Inactivated Poliovirus			Any	Any	29	365	N/A	1
Influenza (Live Attenuated or Inactivated)			Any	Any	29	365	N/A	1
Measles, Mumps, Rubella			Any	Any	29	365	N/A	1
Varicella			Any	Any	29	365	N/A	1
Hepatitis A			Any	Any	29	365	N/A	1
Meningococcal (A, C, W, Y)			Any	Any	29	365	N/A	1
COVID-19 Vaccine			Any	Any	29	365	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Evidence of Comorbidities								
Allergies, Hypersensitivities, and Allergic Reactions			Any	Any	29	365	N/A	1
Anemia			Any	Any	29	365	N/A	1
Asthma			Any	Any	29	365	N/A	1
Cancer of the Brain & Other Parts of the CNS			Any	Any	29	365	N/A	1
Cancer of the Lymphoid, Hematopoietic and Related Tissue			Any	Any	29	365	N/A	1
Cancer, Other			Any	Any	29	365	N/A	1
COVID -19			Any	Any	29	365	N/A	1
Diabetes mellitus (DM)			Any	Any	29	365	N/A	1
Epilepsy			Any	Any	29	365	N/A	1
Gastroesophageal Reflux Disease (GERD)			Any	Any	29	365	N/A	1
Hypertension			Any	Any	29	365	N/A	1
Influenza			Any	Any	29	365	N/A	1
Intellectual Disabilities and Related Conditions			Any	Any	29	365	N/A	1
Irritable bowel syndrome			Any	Any	29	365	N/A	1
Measles			Any	Any	29	365	N/A	1
Meningitis			Any	Any	29	365	N/A	1
Mumps			Any	Any	29	365	N/A	1
Otitis Media			Any	Any	29	365	N/A	1
Pertussis			Any	Any	29	365	N/A	1
Pneumonia			Any	Any	29	365	N/A	1
Rubella			Any	Any	29	365	N/A	1
Sickle Cell Disease			Any	Any	29	365	N/A	1
Sinusitis			Any	Any	29	365	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Clinical Characteristics Identified by Searching [Infant Only or Infant and Mother] Record [0, 365 Days]								
Evidence of Major Congenital Malformations								
Central Nervous System								
Encephalocele, cranial meningocele, encephalomyelocele	MI	I	Any	Any	0	365	N/A	1
Spina bifida	MI	I	Any	Any	0	365	N/A	1
Holoprosencephaly	MI	I	Any	Any	0	365	N/A	1
Microcephalus	MI	I	Any	Any	0	365	N/A	1
Eye, Ear, Nose, Throat (EENT)								
Anophthalmia, microphthalmia	MI	I	Any	Any	0	365	N/A	1
Cataracts and other lens defects	MI	I	Any	Any	0	365	N/A	1
Anotia, microtia	MI	I	Any	Any	0	365	N/A	1
Cardiac								
Severe cardiac defects	MI	I	Any	Any	0	365	N/A	1
Pulmonary venous return, anomalous coronary artery	MI	I	Any	Any	0	365	N/A	1
Other cardiac defects: septal defects, heterotaxy, papvr	MI	I	Any	Any	0	365	N/A	1
Orofacial/respiratory								
Choanal atresia/stenosis	MI	I	Any	Any	0	365	N/A	1
Cleft palate/lip	MI	I	Any	Any	0	365	N/A	1
Gastrointestinal								
Biliary atresia	MI	I	Any	Any	0	365	N/A	1
Intestinal atresia/stenosis	MI	I	Any	Any	0	365	N/A	1
Esophageal atresia + tracheoesophageal fistula	MI	I	Any	Any	0	365	N/A	1
Pyloric stenosis	MI	I	Any	Any	0	365	N/A	1
Exstrophy, bladder	MI	I	Any	Any	0	365	N/A	1

Appendix G. Specifications Defining Baseline Characteristic Parameters for this Request

Characteristic	Medical Record for Linked*	Medical Record for Unlinked*	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Look for Evidence of a Dispensing or Evidence of Days Supply	Number of Instances the Covariate Should be Found in Evaluation Period
Genitourinary/renal								
Hypospadias — second or third degree	MI	I	Any	Any	0	365	N/A	1
Renal dysplasia	MI	I	Any	Any	0	365	N/A	1
Renal agenesis/hypoplasia	MI	I	Any	Any	0	365	N/A	1
Congenital hydronephrosis	MI	I	Any	Any	0	365	N/A	1
Posterior urethral valve/and/or prune belly	MI	I	Any	Any	0	365	N/A	1
Musculoskeletal malformations								
Gastroschisis or omphalocele	MI	I	Any	Any	0	365	N/A	1
Diaphragmatic hernia	MI	I	Any	Any	0	365	N/A	1
Limb deficiency	MI	I	Any	Any	0	365	N/A	1
Sacral agenesis	MI	I	Any	Any	0	365	N/A	1

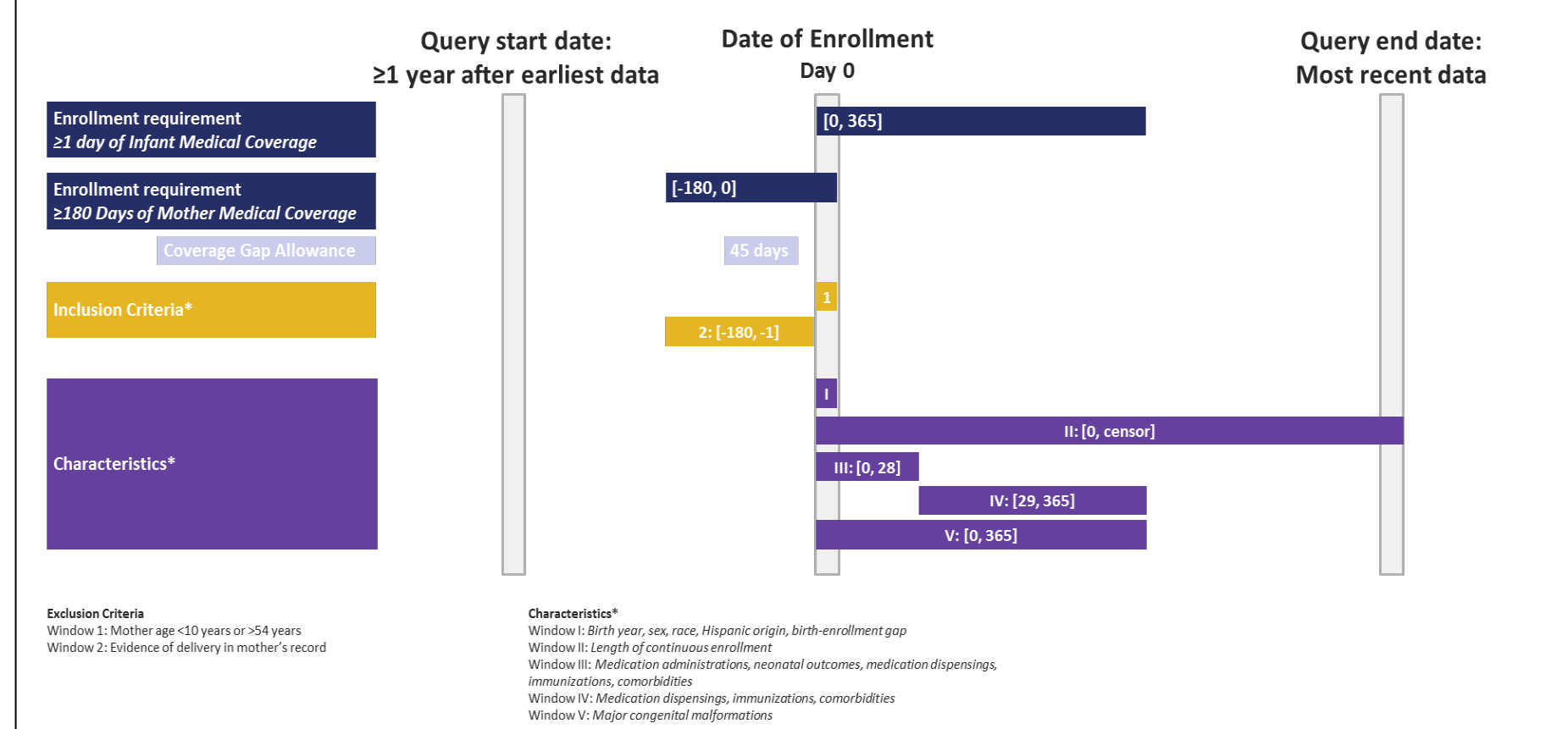
N/A: Not Applicable

* I = infant's record

M = mother's record

MI = both infant's and mother's record

Linked Infants



Unlinked Infants

Query start date:
≥1 year after earliest data

Date of Enrollment
Day 0

Query end date:
Most recent data

Enrollment requirement
≥1 day of Infant Medical Coverage

Characteristics*

[0, 365]

I

II: [0, censor]

III: [0, 28]

IV: [29, 365]

V: [0, 365]

Characteristics*

Window I: Birth year, sex, race, Hispanic origin, birth-enrollment gap

Window II: Length of continuous enrollment

Window III: Medication administrations, neonatal outcomes, medication dispensings, immunizations, comorbidities

Window IV: Medication dispensings, immunizations, comorbidities

Window V: Major congenital malformations