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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 cder_mpl2r_wp014

Request ID: cder_mpl2r_wp014_nsdv_v01

Request Description: In this analysis we assessed the risk of cutaneous small-vessel vasculitis (CSVV) associated with the use of direct oral anticoagulant (DOAC) and warfarin among patients with atrial fibrillation aged 21 to 99 years in the Sentinel Distributed Database (SDD).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis (PSA) tools, version 9.6.0. This is a Type 2 analysis using the PSA module in the Query Request Package (QRP) documentation.

Data Source: The study period spanned from October 19, 2010 to February 29, 2020. We distributed the analytic package to 16 Data Partners (DP) on September 15, 2020. Five of the six analytic comparisons present aggregated data with converged models from 14 DPs and one analytic comparison presents aggregated data with a converged model from 15 DPs. See Appendix A for a list of the latest dates of available data for each DP included in this report.

Study Design: This study used a retrospective new-user cohort design. We identified cohorts of new initiators of rivaroxaban, dabigatran, apixaban, and warfarin among health plan members with a history of atrial fibrillation between the ages of 21 and 99 years. We evaluated the occurrence of CSVV event outcome among these cohorts. We then conducted a PSA using 1:1 propensity score (PS) matching in the following six comparisons: 1) rivaroxaban vs. warfarin; 2) dabigatran vs. warfarin; 3) apixaban vs. warfarin; 4) rivaroxaban vs. dabigatran; 5) rivaroxaban vs. apixaban; and 6) dabigatran vs. apixaban.

Exposures: We defined oral exposures of interest as new use of rivaroxaban (2.5, 10, 15, or 20 mg), dabigatran (75, 110, or 150 mg), apixaban (2.5 or 5 mg), and warfarin (1, 2, 2.5, 3, 4, 5, 6, 7.5, or 10 mg). We retained only the first valid exposure episode per patient. See Appendix B for a list of generic and brand names of medical products used to define exposures.

Cohort Eligibility Criteria: We required patients between the ages of 21 and 99 years to be continuously enrolled in plans with medical and drug coverage for at least 183 days before the index dispensing, during which gaps in coverage of up to 45 days were allowed. New use of the exposures of interest was defined as no use of rivaroxaban, dabigatran, apixaban, edoxaban, or warfarin in the 183 days preceding the index dispensing. See Appendices C for a list of generic and brand names of medical products used to define incidence criteria.

Inclusion Criteria: We included patients in the cohort with evidence of atrial fibrillation in the 183 days prior to and including the index dispensing date. See Appendix D for a list of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes used to define inclusion criteria.

Exclusion Criteria: We excluded patients from the cohort with evidence of an institutional stay (IS) recorded on the index dispensing date or with evidence of any other study drug of interest dispensed on the index date. We also excluded patients with evidence in the 183 days prior to and including the index dispensing date of any of the following: A) CSVV diagnosis of hypersensitivity angitis, vasculitis of the skin, or allergic purpura in the ambulatory visit (AV), other ambulatory visit (OA), or emergency department (ED) care setting or steroid treatment for CSVV; B) diagnosis of select autoimmune disorders, including rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia or treatment for these autoimmune disorders; C) cancer or chemotherapy treatment; D) kidney transplant or dialysis; or E) potential alternative indications, including deep vein thrombosis, pulmonary embolism, or joint replacement surgery prophylaxis. See Appendix E for a list of ICD-9-CM, ICD-10-CM, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes and Appendix F for a list of generic and brand names of medical products used to define exclusion criteria.

Follow-up: We determined follow-up time based on the length of the exposure episodes and censored upon prespecified criteria. We created exposure episodes using outpatient pharmacy dispensing data. We bridged together exposure episodes less than 3 days apart and added 3 days at the end of each exposure episode to create continuous treatment episodes. Overlapping days supply of consecutive dispensings were stockpiled up to 33% of the first dispensing's days supply. We censored all exposure episodes at the first occurrence of any of the following: A) initiation of any other DOAC or warfarin (for DOAC cohorts) or initiation of any DOAC (for warfarin cohorts); B) end of exposure episode; C) disenrollment; D) death; E) Data Partner end date; or F) event outcome.

Event Outcome: We defined the event outcome of CSVV as a diagnosis of hypersensitivity angitis, vasculitis of the skin, or allergic purpura in the AV, OA, or ED care setting. Within 90 days of a qualifying CSVV diagnosis (including the date of diagnosis), we required an oral or topical dispensing of steroid treatment. See Appendix G for a list of ICD-9-CM and ICD-10-CM diagnosis codes and Appendix H for a list of generic and brand names of medical products used to define the event outcome.

Overview for cder_mpl2r_wp014

Baseline Characteristics: We evaluated the following demographics on the index dispensing date: age, sex, race, and calendar year. We evaluated the occurrence of baseline characteristics in the 183 days prior to and including the index dispensing date, including the following: Charlson/Elixhauser combined comorbidity score¹, health care utilization, drug utilization, autoimmune diseases, hematological blood disorders, viral infections, bacterial infections, anti-infectives, nonsteroidal anti-inflammatory drugs, psychoactive drugs, cardiovascular and diuretic drugs, beta-adrenergic receptor agonists, anticonvulsants, and individual subcategories for each category of interest. We also evaluated the dispensing dose strength (in mg) of each exposure of interest recorded on the index date. See Appendix I for a list of ICD-9-CM and ICD-10-CM diagnosis codes and Appendix J for a list of generic and brand names of medical products used to define baseline covariates.

Propensity Score Estimation: For each of the six comparisons, we fit a logistic regression model to estimate the PS based on potential confounders as covariates. We included the following covariates in the adjusted PS model: age (continuous variable), sex, autoimmune diseases, hematological blood disorders, viral infections, bacterial infections, anti-infectives, nonsteroidal anti-inflammatory drugs, psychoactive drugs, cardiovascular and diuretic drugs, beta-adrenergic receptor agonists, and anticonvulsants. The matching ratio for the PSA was 1:1 and the matching caliper was 0.05. Patients in the exposed and comparator cohorts were nearest neighbor matched without replacement, meaning that each comparator patient was matched one time, at most, to an exposed patient. For each comparison, we used case-centered logistic regression models to estimate the adjusted hazard ratio and 95% confidence intervals for the unmatched analyses and unconditional and conditional matched analyses.

See Appendices K and L for specifications of parameters to define cohort entry, PSA, and covariates. See Appendix M for a pictorial design diagram of the request.

Limitations: As with all observational studies, this evaluation was limited in its ability to control for all sources of potential bias. Algorithms used to define exposures, event outcomes, inclusion and exclusion criteria, and covariates are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.org) 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>).

¹The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

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

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

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

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

Individual Level Data Return - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output.

Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

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

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

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

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

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

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

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

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

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

*all terms may not be used in this report

Table 1a. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	328,249	100.0%	618,915	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	73.3	9.6	75.4	9.8	-2.075	-0.214
Age (years)	Number	Percent	Number	Percent		
21-64	55,201	16.8%	78,851	12.7%	4.077	0.115
65-74	124,805	38.0%	204,905	33.1%	4.914	0.103
75-84	104,552	31.9%	224,519	36.3%	-4.425	-0.093
85-99	43,691	13.3%	110,640	17.9%	-4.566	-0.126
Sex						
Female	149,380	45.5%	300,150	48.5%	-2.988	-0.060
Male	178,869	54.5%	318,765	51.5%	2.988	0.060
Race ²						
American Indian or Alaska Native	994	0.3%	2,359	0.4%	-0.078	-0.013
Asian	4,397	1.3%	9,446	1.5%	-0.187	-0.016
Black or African American	15,755	4.8%	32,051	5.2%	-0.379	-0.017
Native Hawaiian or Other Pacific Islander	358	0.1%	734	0.1%	-0.010	-0.003
Unknown	65,483	19.9%	88,167	14.2%	5.704	0.152
White	241,262	73.5%	486,158	78.6%	-5.050	-0.119
Hispanic Origin	4,466	1.4%	10,305	1.7%	-0.304	-0.025
Year						
2010	0	0.0%	24,732	4.0%	-3.996	-0.289
2011	255	0.1%	101,814	16.5%	-16.373	-0.623
2012	17,520	5.3%	96,757	15.6%	-10.296	-0.341
2013	39,672	12.1%	88,586	14.3%	-2.227	-0.066
2014	50,206	15.3%	76,488	12.4%	2.937	0.085
2015	43,740	13.3%	66,553	10.8%	2.572	0.079
2016	42,857	13.1%	56,161	9.1%	3.982	0.127
2017	50,430	15.4%	45,617	7.4%	7.993	0.254
2018	45,240	13.8%	35,271	5.7%	8.083	0.275
2019	37,803	11.5%	26,650	4.3%	7.211	0.270
2020	526	0.2%	286	0.0%	0.114	0.036
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	627	0.2%	-	0.0%	0.191	-
Rivaroxaban 10 mg	12,200	3.7%	-	0.0%	3.717	-
Rivaroxaban 15 mg	68,967	21.0%	-	0.0%	21.011	-
Rivaroxaban 20 mg	247,325	75.3%	-	0.0%	75.347	-
Warfarin 1 mg	-	0.0%	40,010	6.5%	-6.465	-
Warfarin 2 mg	-	0.0%	74,113	12.0%	-11.975	-
Warfarin 2.5 mg	-	0.0%	84,653	13.7%	-13.678	-
Warfarin 3 mg	-	0.0%	46,425	7.5%	-7.501	-
Warfarin 4 mg	-	0.0%	41,708	6.7%	-6.739	-
Warfarin 5 mg	-	0.0%	329,158	53.2%	-53.183	-
Warfarin 6 mg	-	0.0%	10,037	1.6%	-1.622	-
Warfarin 7.5 mg	-	0.0%	13,143	2.1%	-2.124	-
Warfarin 10 mg	-	0.0%	7,036	1.1%	-1.137	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	2.6	2.4	3.2	2.7	-0.597	-0.235
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Autoimmune diseases	16,665	5.1%	40,082	6.5%	-1.399	-0.060
Addison's disease	2,988	0.9%	6,690	1.1%	-0.171	-0.017
Autoimmune vasculitis	981	0.3%	2,543	0.4%	-0.112	-0.019

Table 1a. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Celiac disease	478	0.1%	822	0.1%	0.013	0.003
Graves' disease	26	0.0%	23	0.0%	0.004	0.006
Hashimoto's thyroiditis	1,211	0.4%	1,423	0.2%	0.139	0.025
Inflammatory bowel disease	418	0.1%	874	0.1%	-0.014	-0.004
Multiple sclerosis	836	0.3%	1,440	0.2%	0.022	0.004
Myasthenia gravis	248	0.1%	484	0.1%	-0.003	-0.001
Pernicious anemia	2,439	0.7%	5,427	0.9%	-0.134	-0.015
Psoriatic arthritis	1,710	0.5%	3,401	0.5%	-0.029	-0.004
Type 1 diabetes	8,282	2.5%	23,652	3.8%	-1.298	-0.074
Hematological blood disorders	61,328	18.7%	171,482	27.7%	-9.023	-0.215
Anemia	59,459	18.1%	161,088	26.0%	-7.913	-0.192
Hemophilia	2,743	0.8%	20,613	3.3%	-2.495	-0.175
Leukemia	119	0.0%	117	0.0%	0.017	0.010
Lymphoma	295	0.1%	349	0.1%	0.033	0.012
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	131	0.0%	343	0.1%	-0.016	-0.007
Sickle cell disease	129	0.0%	221	0.0%	0.004	0.002
Von Willebrand disease	41	0.0%	167	0.0%	-0.014	-0.010
Viral infections	4,407	1.3%	8,364	1.4%	-0.009	-0.001
Hepatitis B	2,343	0.7%	4,770	0.8%	-0.057	-0.007
Hepatitis C	3,757	1.1%	7,089	1.1%	-0.001	-0.000
Human immunodeficiency virus	448	0.1%	887	0.1%	-0.007	-0.002
Bacterial infections: Chronic bacteremia	2,484	0.8%	7,543	1.2%	-0.462	-0.047
Anti-infectives	98,260	29.9%	185,039	29.9%	0.037	0.001
Acyclovir	4,885	1.5%	6,707	1.1%	0.405	0.036
Ampicillin	560	0.2%	1,276	0.2%	-0.036	-0.008
Cephalosporin	28,278	8.6%	56,032	9.1%	-0.438	-0.015
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	20,404	6.2%	41,752	6.7%	-0.530	-0.022
Clindamycin	6,840	2.1%	13,043	2.1%	-0.024	-0.002
Doxycycline	12,114	3.7%	21,289	3.4%	0.251	0.014
Gentamicin	84	0.0%	219	0.0%	-0.010	-0.006
Griseofulvin	30	0.0%	62	0.0%	-0.001	-0.001
Isoniazid	32	0.0%	91	0.0%	-0.005	-0.004
Ofloxacin	*****	*****	*****	*****	-0.001	-0.002
Penicillin	38,375	11.7%	70,040	11.3%	0.374	0.012
Rifampicin	155	0.0%	436	0.1%	-0.023	-0.010
Trimethoprim-sulfamethoxazole	14,275	4.3%	26,819	4.3%	0.016	0.001
Zidovudine	21	0.0%	75	0.0%	-0.006	-0.006
Nonsteroidal anti-inflammatory drugs	21,667	6.6%	35,238	5.7%	0.907	0.038
Acetylsalicylic acid	2,179	0.7%	5,743	0.9%	-0.264	-0.030
Diclofenac	4,027	1.2%	5,331	0.9%	0.365	0.036
Flurbiprofen	56	0.0%	91	0.0%	0.002	0.002
Ibuprofen	8,952	2.7%	12,895	2.1%	0.644	0.042
Indomethacin	1,222	0.4%	2,966	0.5%	-0.107	-0.016
Naproxen	6,233	1.9%	9,675	1.6%	0.336	0.026
Psychoactive drugs	13,991	4.3%	27,710	4.5%	-0.215	-0.011
Amitriptyline	3,620	1.1%	7,990	1.3%	-0.188	-0.017
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Maprotiline	11	0.0%	13	0.0%	0.001	0.002
Trazodone	10,564	3.2%	20,091	3.2%	-0.028	-0.002
Cardiovascular and diuretic drugs	199,948	60.9%	422,194	68.2%	-7.302	-0.153

Table 1a. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Acebutolol	392	0.1%	616	0.1%	0.020	0.006
Amiodarone	34,844	10.6%	83,751	13.5%	-2.917	-0.090
Atenolol	26,115	8.0%	62,973	10.2%	-2.219	-0.077
Captopril	636	0.2%	2,286	0.4%	-0.176	-0.033
Diltiazem	53,588	16.3%	94,735	15.3%	1.019	0.028
Furosemide	73,565	22.4%	204,715	33.1%	-10.665	-0.240
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	8,747	2.7%	22,669	3.7%	-0.998	-0.057
Hydrochlorothiazide	74,580	22.7%	131,540	21.3%	1.467	0.035
Methyldopa	106	0.0%	427	0.1%	-0.037	-0.016
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	47	0.0%	189	0.0%	-0.016	-0.011
Spironolactone	17,945	5.5%	45,399	7.3%	-1.868	-0.076
Beta-adrenergic receptor agonists	34,708	10.6%	69,071	11.2%	-0.586	-0.019
Terbutaline	18	0.0%	44	0.0%	-0.002	-0.002
Anticonvulsants	1,993	0.6%	6,253	1.0%	-0.403	-0.045
Carbamazepine	894	0.3%	2,451	0.4%	-0.124	-0.021
Phenytoin	931	0.3%	3,451	0.6%	-0.274	-0.042
Sodium valproate	198	0.1%	474	0.1%	-0.016	-0.006
Health Service Utilization Intensity in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters	10.0	8.0	11.1	8.7	-1.156	-0.138
Mean number of emergency room encounters	0.4	0.9	0.4	0.9	0.022	0.025
Mean number of inpatient hospital encounters	0.5	0.7	0.6	0.8	-0.142	-0.184
Mean number of non-acute institutional encounters	0.1	0.5	0.2	0.7	-0.075	-0.125
Mean number of other ambulatory encounters	4.7	9.4	7.1	12.0	-2.416	-0.225
Mean number of unique drug classes	8.0	3.9	8.5	4.0	-0.500	-0.127
Mean number of generics	8.5	4.3	9.1	4.4	-0.539	-0.123
Mean number of filled prescriptions	19.0	15.6	20.1	15.4	-1.054	-0.068

¹Covariates in blue show a standardized difference greater than 0.1.

²Race data may not be completely populated at all Data

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 1b. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	320,363	97.6%	320,363	51.8%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	73.8	9.4	73.8	9.8	0.013	0.001
Age (years)	Number	Percent	Number	Percent		
21-64	47,920	15.0%	51,498	16.1%	-1.117	-0.035
65-74	124,247	38.8%	116,049	36.2%	2.559	0.053
75-84	104,507	32.6%	107,482	33.6%	-0.929	-0.020
85-99	43,689	13.6%	45,334	14.2%	-0.513	-0.015
Sex						
Female*	147,780	46.1%	147,655	46.1%	0.039	0.001
Male*	172,583	53.9%	172,708	53.9%	-0.039	-0.001
Race ²						
American Indian or Alaska Native	989	0.3%	1,117	0.3%	-0.040	-0.007
Asian	4,358	1.4%	3,482	1.1%	0.273	0.025
Black or African American	15,693	4.9%	15,536	4.8%	0.049	0.002
Native Hawaiian or Other Pacific Islander	354	0.1%	301	0.1%	0.017	0.005
Unknown	58,577	18.3%	56,002	17.5%	0.804	0.038
White	240,392	75.0%	243,925	76.1%	-1.103	-0.035
Hispanic Origin	4,409	1.4%	3,859	1.2%	0.172	0.015
Year						
2010	0	0.0%	13,789	4.3%	-4.304	-0.300
2011	243	0.1%	54,267	16.9%	-16.863	-0.634
2012	17,048	5.3%	50,943	15.9%	-10.580	-0.349
2013	38,704	12.1%	46,094	14.4%	-2.307	-0.068
2014	48,926	15.3%	39,127	12.2%	3.059	0.089
2015	42,589	13.3%	33,760	10.5%	2.756	0.085
2016	41,812	13.1%	27,980	8.7%	4.318	0.139
2017	49,314	15.4%	22,635	7.1%	8.328	0.266
2018	44,188	13.8%	17,564	5.5%	8.311	0.284
2019	37,054	11.6%	13,991	4.4%	7.199	0.268
2020	485	0.2%	213	0.1%	0.085	0.026
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	622	0.2%	-	0.0%	0.194	-
Rivaroxaban 10 mg	12,021	3.8%	-	0.0%	3.752	-
Rivaroxaban 15 mg	68,721	21.5%	-	0.0%	21.451	-
Rivaroxaban 20 mg	239,851	74.9%	-	0.0%	74.869	-
Warfarin 1 mg	-	0.0%	18,542	5.8%	-5.788	-
Warfarin 2 mg	-	0.0%	33,780	10.5%	-10.544	-
Warfarin 2.5 mg	-	0.0%	38,071	11.9%	-11.884	-
Warfarin 3 mg	-	0.0%	22,405	7.0%	-6.994	-
Warfarin 4 mg	-	0.0%	21,205	6.6%	-6.619	-
Warfarin 5 mg	-	0.0%	182,361	56.9%	-56.923	-
Warfarin 6 mg	-	0.0%	5,191	1.6%	-1.620	-
Warfarin 7.5 mg	-	0.0%	7,477	2.3%	-2.334	-
Warfarin 10 mg	-	0.0%	4,343	1.4%	-1.356	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ^{3*}	2.6	2.4	2.6	2.4	0.012	0.005
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Autoimmune diseases*	16,481	5.1%	16,379	5.1%	0.032	0.001
Addison's disease	2,982	0.9%	2,330	0.7%	0.204	0.022

Table 1b. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Autoimmune vasculitis	964	0.3%	1,036	0.3%	-0.022	-0.004
Celiac disease	470	0.1%	336	0.1%	0.042	0.012
Graves' disease	*****	*****	*****	*****	0.006	0.008
Hashimoto's thyroiditis	1,185	0.4%	654	0.2%	0.166	0.031
Inflammatory bowel disease	418	0.1%	292	0.1%	0.039	0.012
Multiple sclerosis	819	0.3%	652	0.2%	0.052	0.011
Myasthenia gravis	247	0.1%	197	0.1%	0.016	0.006
Pernicious anemia	2,439	0.8%	1,828	0.6%	0.191	0.023
Psoriatic arthritis	1,663	0.5%	1,414	0.4%	0.078	0.011
Type 1 diabetes	8,217	2.6%	9,934	3.1%	-0.536	-0.032
Hematological blood disorders*	61,305	19.1%	61,244	19.1%	0.019	0.000
Anemia	59,439	18.6%	57,051	17.8%	0.745	0.019
Hemophilia	2,739	0.9%	7,673	2.4%	-1.540	-0.122
Leukemia	119	0.0%	40	0.0%	0.025	0.016
Lymphoma	295	0.1%	114	0.0%	0.056	0.022
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	131	0.0%	122	0.0%	0.003	0.001
Sickle cell disease	129	0.0%	86	0.0%	0.013	0.007
Von Willebrand disease	41	0.0%	71	0.0%	-0.009	-0.007
Viral infections*	4,280	1.3%	4,176	1.3%	0.032	0.003
Hepatitis B	2,285	0.7%	2,316	0.7%	-0.010	-0.001
Hepatitis C	3,664	1.1%	3,485	1.1%	0.056	0.005
Human immunodeficiency virus	420	0.1%	525	0.2%	-0.033	-0.009
Bacterial infections: Chronic bacteremia*	2,483	0.8%	2,577	0.8%	-0.029	-0.003
Anti-infectives*	96,405	30.1%	94,675	29.6%	0.540	0.012
Acyclovir	4,723	1.5%	3,545	1.1%	0.368	0.033
Ampicillin	556	0.2%	593	0.2%	-0.012	-0.003
Cephalosporin	27,886	8.7%	27,512	8.6%	0.117	0.004
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	20,176	6.3%	20,493	6.4%	-0.099	-0.004
Clindamycin	6,708	2.1%	6,753	2.1%	-0.014	-0.001
Doxycycline	11,904	3.7%	10,513	3.3%	0.434	0.024
Gentamicin	84	0.0%	86	0.0%	-0.001	-0.000
Griseofulvin	26	0.0%	35	0.0%	-0.003	-0.003
Isoniazid	30	0.0%	36	0.0%	-0.002	-0.002
Ofloxacin	*****	*****	*****	*****	-0.001	-0.003
Penicillin	37,458	11.7%	37,322	11.6%	0.042	0.001
Rifampicin	153	0.0%	202	0.1%	-0.015	-0.006
Trimethoprim-sulfamethoxazole	14,094	4.4%	13,348	4.2%	0.233	0.012
Zidovudine	20	0.0%	43	0.0%	-0.007	-0.007
Nonsteroidal anti-inflammatory drugs*	20,354	6.4%	19,851	6.2%	0.157	0.006
Acetylsalicylic acid	1,779	0.6%	1,765	0.6%	0.004	0.001
Diclofenac	3,829	1.2%	3,477	1.1%	0.110	0.010
Flurbiprofen	53	0.0%	64	0.0%	-0.003	-0.003
Ibuprofen	8,510	2.7%	7,483	2.3%	0.321	0.021
Indomethacin	1,137	0.4%	1,863	0.6%	-0.227	-0.033
Naproxen	5,944	1.9%	6,033	1.9%	-0.028	-0.002
Psychoactive drugs*	13,782	4.3%	13,368	4.2%	0.129	0.006
Amitriptyline	3,560	1.1%	4,161	1.3%	-0.188	-0.017
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Maprotiline	*****	*****	*****	*****	0.002	0.003
Trazodone	10,413	3.3%	9,392	2.9%	0.319	0.018

Table 1b. Cohort of New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Cardiovascular and diuretic drugs*	197,466	61.6%	197,293	61.6%	0.054	0.001
Acebutolol	385	0.1%	316	0.1%	0.022	0.007
Amiodarone	34,497	10.8%	37,772	11.8%	-1.022	-0.032
Atenolol	25,794	8.1%	28,011	8.7%	-0.692	-0.025
Captopril	633	0.2%	1,076	0.3%	-0.138	-0.027
Diltiazem	52,534	16.4%	46,489	14.5%	1.887	0.052
Furosemide	73,194	22.8%	88,955	27.8%	-4.920	-0.114
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	8,711	2.7%	9,077	2.8%	-0.114	-0.007
Hydrochlorothiazide	73,654	23.0%	64,777	20.2%	2.771	0.067
Methyldopa	105	0.0%	183	0.1%	-0.024	-0.011
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	47	0.0%	92	0.0%	-0.014	-0.010
Spironolactone	17,785	5.6%	20,763	6.5%	-0.930	-0.039
Beta-adrenergic receptor agonists*	34,213	10.7%	33,518	10.5%	0.217	0.007
Terbutaline	18	0.0%	25	0.0%	-0.002	-0.003
Anticonvulsants*	1,991	0.6%	2,083	0.7%	-0.029	-0.004
Carbamazepine	893	0.3%	835	0.3%	0.018	0.003
Phenytoin	930	0.3%	1,132	0.4%	-0.063	-0.011
Sodium valproate	198	0.1%	158	0.0%	0.012	0.005
Health Service Utilization Intensity in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.0	8.0	10.9	8.5	-0.846	-0.102
Mean number of emergency room encounters	0.4	0.9	0.4	0.9	0.065	0.074
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.8	-0.046	-0.062
Mean number of non-acute institutional encounters	0.1	0.6	0.2	0.6	-0.021	-0.037
Mean number of other ambulatory encounters	4.8	9.5	5.6	10.3	-0.810	-0.082
Mean number of unique drug classes	8.1	3.9	8.1	3.9	-0.019	-0.005
Mean number of generics	8.6	4.3	8.6	4.3	-0.010	-0.002
Mean number of filled prescriptions	19.2	15.6	19.2	15.0	-0.054	-0.003

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and

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

Table 1c. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	142,328	100.0%	622,001	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	72.7	9.9	75.4	9.8	-2.640	-0.268
Age (years)	Number	Percent	Number	Percent		
21-64	27,400	19.3%	79,653	12.8%	6.445	0.176
65-74	52,961	37.2%	206,018	33.1%	4.089	0.086
75-84	44,420	31.2%	225,433	36.2%	-5.034	-0.107
85-99	17,547	12.3%	110,897	17.8%	-5.501	-0.154
Sex						
Female	63,985	45.0%	301,335	48.4%	-3.490	-0.070
Male	78,343	55.0%	320,666	51.6%	3.490	0.070
Race ²						
American Indian or Alaska Native	458	0.3%	2,390	0.4%	-0.062	-0.011
Asian	3,640	2.6%	10,089	1.6%	0.935	0.065
Black or African American	6,245	4.4%	32,879	5.3%	-0.898	-0.042
Native Hawaiian or Other Pacific Islander	352	0.2%	1,313	0.2%	0.036	0.008
Unknown	27,054	19.0%	88,283	14.2%	4.815	0.130
White	104,579	73.5%	487,047	78.3%	-4.826	-0.113
Hispanic Origin	2,941	2.1%	10,440	1.7%	0.388	0.029
Year						
2010	1,657	1.2%	24,797	4.0%	-2.822	-0.179
2011	34,723	24.4%	102,202	16.4%	7.965	0.199
2012	26,875	18.9%	96,861	15.6%	3.310	0.088
2013	16,212	11.4%	88,580	14.2%	-2.851	-0.085
2014	11,785	8.3%	76,829	12.4%	-4.072	-0.134
2015	9,492	6.7%	67,031	10.8%	-4.108	-0.146
2016	13,292	9.3%	56,738	9.1%	0.217	0.008
2017	12,513	8.8%	46,139	7.4%	1.374	0.050
2018	10,293	7.2%	35,671	5.7%	1.497	0.061
2019	5,462	3.8%	26,866	4.3%	-0.482	-0.024
2020	24	0.0%	287	0.0%	-0.029	-0.016
Recorded on Index Date:	Number	Percent	Number	Percent		
Dabigatran 75 mg	18,636	13.1%	-	0.0%	13.094	-
Dabigatran 110 mg	1,058	0.7%	-	0.0%	0.743	-
Dabigatran 150 mg	122,688	86.2%	-	0.0%	86.201	-
Warfarin 1 mg	-	0.0%	40,294	6.5%	-6.478	-
Warfarin 2 mg	-	0.0%	74,608	12.0%	-11.995	-
Warfarin 2.5 mg	-	0.0%	85,067	13.7%	-13.676	-
Warfarin 3 mg	-	0.0%	46,512	7.5%	-7.478	-
Warfarin 4 mg	-	0.0%	41,807	6.7%	-6.721	-
Warfarin 5 mg	-	0.0%	330,868	53.2%	-53.194	-
Warfarin 6 mg	-	0.0%	10,048	1.6%	-1.615	-
Warfarin 7.5 mg	-	0.0%	13,153	2.1%	-2.115	-
Warfarin 10 mg	-	0.0%	7,039	1.1%	-1.132	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	2.4	2.2	3.2	2.7	-0.811	-0.330
	Number	Percent	Number	Percent		
Autoimmune diseases	7,567	5.3%	40,155	6.5%	-1.139	-0.048
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Addison's disease	1,347	0.9%	6,701	1.1%	-0.131	-0.013
Autoimmune vasculitis	398	0.3%	2,537	0.4%	-0.128	-0.022

Table 1c. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Celiac disease	204	0.1%	824	0.1%	0.011	0.003
Graves' disease	*****	*****	*****	*****	-0.000	-0.000
Hashimoto's thyroiditis	368	0.3%	1,432	0.2%	0.028	0.006
Inflammatory bowel disease	104	0.1%	870	0.1%	-0.067	-0.020
Multiple sclerosis	299	0.2%	1,442	0.2%	-0.022	-0.005
Myasthenia gravis	97	0.1%	490	0.1%	-0.011	-0.004
Pernicious anemia	1,126	0.8%	5,433	0.9%	-0.082	-0.009
Psoriatic arthritis	804	0.6%	3,428	0.6%	0.014	0.002
Type 1 diabetes	4,151	2.9%	23,679	3.8%	-0.890	-0.049
Hematological blood disorders	24,439	17.2%	171,987	27.7%	-10.480	-0.253
Anemia	23,468	16.5%	161,575	26.0%	-9.488	-0.234
Hemophilia	1,394	1.0%	20,662	3.3%	-2.342	-0.162
Leukemia	27	0.0%	116	0.0%	0.000	0.000
Lymphoma	83	0.1%	348	0.1%	0.002	0.001
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	52	0.0%	346	0.1%	-0.019	-0.009
Sickle cell disease	45	0.0%	224	0.0%	-0.004	-0.002
Von Willebrand disease	27	0.0%	166	0.0%	-0.008	-0.005
Viral infections	1,918	1.3%	8,445	1.4%	-0.010	-0.001
Hepatitis B	1,011	0.7%	4,815	0.8%	-0.064	-0.007
Hepatitis C	1,500	1.1%	7,148	1.1%	-0.095	-0.009
Human immunodeficiency virus	285	0.2%	897	0.1%	0.056	0.014
Bacterial infections: Chronic bacteremia	793	0.6%	7,564	1.2%	-0.659	-0.070
Anti-infectives	40,637	28.6%	185,873	29.9%	-1.331	-0.029
Acyclovir	2,092	1.5%	6,739	1.1%	0.386	0.034
Ampicillin	235	0.2%	1,286	0.2%	-0.042	-0.010
Cephalosporin	11,310	7.9%	56,269	9.0%	-1.100	-0.039
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	9,116	6.4%	41,921	6.7%	-0.335	-0.014
Clindamycin	2,724	1.9%	13,108	2.1%	-0.194	-0.014
Doxycycline	4,736	3.3%	21,459	3.4%	-0.122	-0.007
Gentamicin	27	0.0%	219	0.0%	-0.016	-0.010
Griseofulvin	23	0.0%	63	0.0%	0.006	0.005
Isoniazid	16	0.0%	94	0.0%	-0.004	-0.003
Ofloxacin	*****	*****	*****	*****	0.002	0.005
Penicillin	15,312	10.8%	70,301	11.3%	-0.544	-0.017
Rifampicin	62	0.0%	439	0.1%	-0.027	-0.011
Trimethoprim-sulfamethoxazole	5,761	4.0%	26,969	4.3%	-0.288	-0.014
Zidovudine	21	0.0%	75	0.0%	0.003	0.002
Nonsteroidal anti-inflammatory drugs	10,301	7.2%	35,634	5.7%	1.509	0.061
Acetylsalicylic acid	1,954	1.4%	5,905	0.9%	0.424	0.040
Diclofenac	1,537	1.1%	5,344	0.9%	0.221	0.023
Flurbiprofen	35	0.0%	91	0.0%	0.010	0.007
Ibuprofen	3,804	2.7%	13,030	2.1%	0.578	0.038
Indomethacin	795	0.6%	2,999	0.5%	0.076	0.011
Naproxen	2,669	1.9%	9,763	1.6%	0.306	0.023
Psychoactive drugs	5,494	3.9%	27,786	4.5%	-0.607	-0.030
Amitriptyline	1,598	1.1%	7,981	1.3%	-0.160	-0.015
Maprotiline	*****	*****	*****	*****	0.000	0.000
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Trazodone	3,965	2.8%	20,179	3.2%	-0.458	-0.027
Cardiovascular and diuretic drugs	88,958	62.5%	424,235	68.2%	-5.703	-0.120

Table 1c. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Acebutolol	162	0.1%	621	0.1%	0.014	0.004
Amiodarone	14,510	10.2%	84,029	13.5%	-3.315	-0.103
Atenolol	15,075	10.6%	63,698	10.2%	0.351	0.011
Captopril	395	0.3%	2,277	0.4%	-0.089	-0.016
Diltiazem	24,309	17.1%	95,024	15.3%	1.802	0.049
Furosemide	32,139	22.6%	205,560	33.0%	-10.467	-0.235
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	3,272	2.3%	22,804	3.7%	-1.367	-0.080
Hydrochlorothiazide	32,830	23.1%	132,197	21.3%	1.813	0.044
Methyldopa	80	0.1%	431	0.1%	-0.013	-0.005
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	48	0.0%	187	0.0%	0.004	0.002
Spirolactone	7,266	5.1%	45,524	7.3%	-2.214	-0.092
Beta-adrenergic receptor agonists	14,676	10.3%	69,536	11.2%	-0.868	-0.028
Terbutaline	14	0.0%	44	0.0%	0.003	0.003
Anticonvulsants	1,080	0.8%	6,251	1.0%	-0.246	-0.026
Carbamazepine	469	0.3%	2,450	0.4%	-0.064	-0.011
Phenytoin	549	0.4%	3,450	0.6%	-0.169	-0.025
Sodium valproate	79	0.1%	475	0.1%	-0.021	-0.008
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	9.4	7.7	11.1	8.7	-1.664	-0.203
Mean number of emergency room encounters	0.4	0.8	0.4	0.9	0.009	0.010
Mean number of inpatient hospital encounters	0.5	0.7	0.6	0.8	-0.156	-0.199
Mean number of non-acute institutional encounters	0.1	0.5	0.2	0.7	-0.109	-0.191
Mean number of other ambulatory encounters	4.5	8.1	7.1	11.9	-2.578	-0.252
Mean number of unique drug classes	7.9	3.8	8.5	4.0	-0.608	-0.156
Mean number of generics	8.4	4.3	9.0	4.4	-0.651	-0.150
Mean number of filled prescriptions	19.0	15.0	20.0	15.4	-1.006	-0.066

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 1d. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	142,197	99.9%	142,197	22.9%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	72.8	9.8	72.8	10.1	-0.038	-0.004
Age (years)	Number	Percent	Number	Percent		
21-64	27,280	19.2%	27,773	19.5%	-0.347	-0.010
65-74	52,950	37.2%	50,555	35.6%	1.684	0.035
75-84	44,420	31.2%	45,954	32.3%	-1.079	-0.024
85-99	17,547	12.3%	17,915	12.6%	-0.259	-0.008
Sex						
Female*	63,964	45.0%	63,456	44.6%	0.357	0.007
Male*	78,233	55.0%	78,741	55.4%	-0.357	-0.007
Race ²						
American Indian or Alaska Native	457	0.3%	553	0.4%	-0.068	-0.011
Asian	3,621	2.5%	3,238	2.3%	0.269	0.018
Black or African American	6,232	4.4%	6,431	4.5%	-0.140	-0.007
Native Hawaiian or Other Pacific Islander	351	0.2%	435	0.3%	-0.059	-0.012
Unknown	27,038	19.0%	26,440	18.6%	0.421	0.020
White	104,498	73.5%	105,100	73.9%	-0.423	-0.013
Hispanic Origin	2,925	2.1%	3,025	2.1%	-0.070	-0.005
Year						
2010	1,657	1.2%	6,182	4.3%	-3.182	-0.195
2011	34,722	24.4%	24,232	17.0%	7.377	0.183
2012	26,872	18.9%	22,471	15.8%	3.095	0.082
2013	16,209	11.4%	20,268	14.3%	-2.854	-0.085
2014	11,779	8.3%	17,554	12.3%	-4.061	-0.134
2015	9,483	6.7%	15,393	10.8%	-4.156	-0.148
2016	13,271	9.3%	12,612	8.9%	0.463	0.016
2017	12,478	8.8%	10,143	7.1%	1.642	0.061
2018	10,263	7.2%	7,671	5.4%	1.823	0.075
2019	5,439	3.8%	5,597	3.9%	-0.111	-0.006
2020	24	0.0%	74	0.1%	-0.035	-0.019
Recorded on Index Date:	Number	Percent	Number	Percent		
Dabigatran 75 mg	18,634	13.1%	-	0.0%	13.104	-
Dabigatran 110 mg	1,057	0.7%	-	0.0%	0.743	-
Dabigatran 150 mg	122,560	86.2%	-	0.0%	86.190	-
Warfarin 1 mg	-	0.0%	7,453	5.2%	-5.241	-
Warfarin 2 mg	-	0.0%	15,697	11.0%	-11.039	-
Warfarin 2.5 mg	-	0.0%	19,303	13.6%	-13.575	-
Warfarin 3 mg	-	0.0%	8,511	6.0%	-5.985	-
Warfarin 4 mg	-	0.0%	8,391	5.9%	-5.901	-
Warfarin 5 mg	-	0.0%	81,125	57.1%	-57.051	-
Warfarin 6 mg	-	0.0%	1,979	1.4%	-1.392	-
Warfarin 7.5 mg	-	0.0%	3,089	2.2%	-2.172	-
Warfarin 10 mg	-	0.0%	1,856	1.3%	-1.305	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ^{3*}	2.4	2.2	2.4	2.3	0.024	0.011
	Number	Percent	Number	Percent		
Autoimmune diseases*	7,561	5.3%	6,787	4.8%	0.544	0.025
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Addison's disease	1,347	0.9%	966	0.7%	0.268	0.030
Autoimmune vasculitis	398	0.3%	459	0.3%	-0.043	-0.008
Celiac disease	204	0.1%	164	0.1%	0.028	0.008

Table 1d. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Graves' disease	*****	*****	*****	*****	-0.001	-0.001
Hashimoto's thyroiditis	367	0.3%	301	0.2%	0.046	0.010
Inflammatory bowel disease	104	0.1%	138	0.1%	-0.024	-0.008
Multiple sclerosis	298	0.2%	278	0.2%	0.014	0.003
Myasthenia gravis	97	0.1%	92	0.1%	0.004	0.001
Pernicious anemia	1,126	0.8%	759	0.5%	0.258	0.032
Psoriatic arthritis	800	0.6%	780	0.5%	0.014	0.002
Type 1 diabetes	4,151	2.9%	3,780	2.7%	0.261	0.016
Hematological blood disorders*	24,439	17.2%	23,727	16.7%	0.501	0.014
Anemia	23,468	16.5%	22,082	15.5%	0.975	0.027
Hemophilia	1,394	1.0%	2,841	2.0%	-1.018	-0.084
Leukemia	27	0.0%	16	0.0%	0.008	0.006
Lymphoma	83	0.1%	57	0.0%	0.018	0.008
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	52	0.0%	39	0.0%	0.009	0.005
Sickle cell disease	45	0.0%	30	0.0%	0.011	0.006
Von Willebrand disease	27	0.0%	26	0.0%	0.001	0.001
Viral infections*	1,917	1.3%	1,715	1.2%	0.142	0.013
Hepatitis B	1,011	0.7%	955	0.7%	0.039	0.005
Hepatitis C	1,499	1.1%	1,384	1.0%	0.081	0.008
Human immunodeficiency virus	285	0.2%	230	0.2%	0.039	0.009
Bacterial infections: Chronic bacteremia*	793	0.6%	836	0.6%	-0.030	-0.004
Anti-infectives*	40,631	28.6%	39,115	27.5%	1.066	0.024
Acyclovir	2,092	1.5%	1,555	1.1%	0.378	0.034
Ampicillin	235	0.2%	209	0.1%	0.018	0.005
Cephalosporin	11,310	8.0%	11,214	7.9%	0.068	0.003
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	9,114	6.4%	8,142	5.7%	0.684	0.029
Clindamycin	2,724	1.9%	2,787	2.0%	-0.044	-0.003
Doxycycline	4,735	3.3%	4,490	3.2%	0.172	0.010
Gentamicin	27	0.0%	23	0.0%	0.003	0.002
Griseofulvin	23	0.0%	16	0.0%	0.005	0.004
Isoniazid	16	0.0%	23	0.0%	-0.005	-0.004
Ofloxacin	*****	*****	*****	*****	0.002	0.004
Penicillin	15,309	10.8%	15,311	10.8%	-0.001	-0.000
Rifampicin	62	0.0%	81	0.1%	-0.013	-0.006
Trimethoprim-sulfamethoxazole	5,760	4.1%	5,490	3.9%	0.190	0.010
Zidovudine	21	0.0%	18	0.0%	0.002	0.002
Nonsteroidal anti-inflammatory drugs*	10,266	7.2%	9,350	6.6%	0.644	0.026
Acetylsalicylic acid	1,930	1.4%	2,146	1.5%	-0.152	-0.013
Diclofenac	1,537	1.1%	1,169	0.8%	0.259	0.027
Flurbiprofen	35	0.0%	15	0.0%	0.014	0.011
Ibuprofen	3,794	2.7%	3,357	2.4%	0.307	0.020
Indomethacin	795	0.6%	703	0.5%	0.065	0.009
Naproxen	2,666	1.9%	2,388	1.7%	0.196	0.015
Psychoactive drugs*	5,493	3.9%	4,962	3.5%	0.373	0.020
Amitriptyline	1,598	1.1%	1,441	1.0%	0.110	0.011
Maprotiline	*****	*****	*****	*****	0.000	0.000
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Trazodone	3,964	2.8%	3,585	2.5%	0.267	0.017
Cardiovascular and diuretic drugs*	88,957	62.6%	89,132	62.7%	-0.123	-0.003
Acebutolol	162	0.1%	127	0.1%	0.025	0.008

Table 1d. Cohort of New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Amiodarone	14,510	10.2%	16,005	11.3%	-1.051	-0.034
Atenolol	15,074	10.6%	15,572	11.0%	-0.350	-0.011
Captopril	395	0.3%	433	0.3%	-0.027	-0.005
Diltiazem	24,309	17.1%	21,048	14.8%	2.293	0.063
Furosemide	32,139	22.6%	36,917	26.0%	-3.360	-0.079
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	3,272	2.3%	3,893	2.7%	-0.437	-0.028
Hydrochlorothiazide	32,830	23.1%	30,747	21.6%	1.465	0.035
Methyldopa	80	0.1%	101	0.1%	-0.015	-0.006
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	48	0.0%	30	0.0%	0.013	0.008
Spironolactone	7,266	5.1%	8,165	5.7%	-0.632	-0.028
Beta-adrenergic receptor agonists*	14,668	10.3%	13,444	9.5%	0.861	0.029
Terbutaline	*****	*****	*****	*****	0.003	0.003
Anticonvulsants*	1,080	0.8%	965	0.7%	0.081	0.010
Carbamazepine	469	0.3%	389	0.3%	0.056	0.010
Phenytoin	549	0.4%	540	0.4%	0.006	0.001
Sodium valproate	79	0.1%	57	0.0%	0.015	0.007
Health Service Utilization Intensity in the Prior 183						
Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	9.4	7.7	9.9	8.0	-0.471	-0.060
Mean number of emergency room encounters	0.4	0.8	0.4	0.9	0.022	0.026
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.014	-0.019
Mean number of non-acute institutional encounters	0.1	0.5	0.1	0.5	-0.022	-0.044
Mean number of other ambulatory encounters	4.5	8.1	5.2	9.1	-0.644	-0.074
Mean number of unique drug classes	7.9	3.8	7.8	3.7	0.098	0.026
Mean number of generics	8.4	4.3	8.3	4.2	0.133	0.032
Mean number of filled prescriptions	19.0	15.0	17.8	13.8	1.200	0.083

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

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

Table 1e. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	532,973	100.0%	617,584	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	75.5	9.6	75.4	9.8	0.076	0.008
Age (years)	Number	Percent	Number	Percent		
21-64	65,790	12.3%	78,452	12.7%	-0.359	-0.011
65-74	183,986	34.5%	204,477	33.1%	1.412	0.030
75-84	182,509	34.2%	224,238	36.3%	-2.065	-0.043
85-99	100,688	18.9%	110,417	17.9%	1.013	0.026
Sex						
Female	266,616	50.0%	299,514	48.5%	1.527	0.031
Male	266,357	50.0%	318,070	51.5%	-1.527	-0.031
Race ²						
American Indian or Alaska Native	1,477	0.3%	2,312	0.4%	-0.097	-0.017
Asian	6,748	1.3%	9,509	1.5%	-0.274	-0.023
Black or African American	27,206	5.1%	32,827	5.3%	-0.211	-0.009
Native Hawaiian or Other Pacific Islander	604	0.1%	707	0.1%	-0.001	-0.000
Unknown	90,374	17.0%	88,401	14.3%	2.643	0.073
White	406,564	76.3%	483,828	78.3%	-2.060	-0.049
Hispanic Origin	6,363	1.2%	10,292	1.7%	-0.473	-0.040
Year						
2010	0	0.0%	24,665	4.0%	-3.994	-0.288
2011	0	0.0%	101,566	16.4%	-16.446	-0.627
2012	0	0.0%	96,581	15.6%	-15.639	-0.609
2013	10,140	1.9%	88,491	14.3%	-12.426	-0.467
2014	34,761	6.5%	76,562	12.4%	-5.875	-0.202
2015	62,069	11.6%	66,482	10.8%	0.881	0.028
2016	84,924	15.9%	56,132	9.1%	6.845	0.208
2017	89,369	16.8%	45,374	7.3%	9.421	0.292
2018	121,409	22.8%	34,956	5.7%	17.119	0.506
2019	128,145	24.0%	26,489	4.3%	19.754	0.591
2020	2,156	0.4%	286	0.0%	0.358	0.076
Recorded on Index Date:	Number	Percent	Number	Percent		
Apixaban 2.5 mg	120,487	22.6%	-	0.0%	22.607	-
Apixaban 5 mg	412,797	77.5%	-	0.0%	77.452	-
Warfarin 1 mg	-	0.0%	40,076	6.5%	-6.489	-
Warfarin 2 mg	-	0.0%	74,146	12.0%	-12.006	-
Warfarin 2.5 mg	-	0.0%	82,621	13.4%	-13.378	-
Warfarin 3 mg	-	0.0%	46,532	7.5%	-7.535	-
Warfarin 4 mg	-	0.0%	41,795	6.8%	-6.768	-
Warfarin 5 mg	-	0.0%	329,557	53.4%	-53.362	-
Warfarin 6 mg	-	0.0%	10,063	1.6%	-1.629	-
Warfarin 7.5 mg	-	0.0%	13,181	2.1%	-2.134	-
Warfarin 10 mg	-	0.0%	7,045	1.1%	-1.141	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	3.1	2.7	3.2	2.7	-0.047	-0.018
	Number	Percent	Number	Percent		
Autoimmune diseases	28,550	5.4%	40,092	6.5%	-1.135	-0.048
Addison's disease	5,013	0.9%	6,698	1.1%	-0.144	-0.014
Autoimmune vasculitis	2,049	0.4%	2,549	0.4%	-0.028	-0.004
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Celiac disease	864	0.2%	814	0.1%	0.030	0.008
Graves' disease	54	0.0%	23	0.0%	0.006	0.008

Table 1e. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hashimoto's thyroiditis	2,295	0.4%	1,426	0.2%	0.200	0.035
Inflammatory bowel disease	1,166	0.2%	866	0.1%	0.079	0.019
Multiple sclerosis	1,474	0.3%	1,438	0.2%	0.044	0.009
Myasthenia gravis	535	0.1%	485	0.1%	0.022	0.007
Pernicious anemia	3,964	0.7%	5,436	0.9%	-0.136	-0.015
Psoriatic arthritis	3,149	0.6%	3,380	0.5%	0.044	0.006
Type 1 diabetes	12,949	2.4%	23,682	3.8%	-1.405	-0.081
Hematological blood disorders	120,949	22.7%	171,392	27.8%	-5.059	-0.117
Anemia	117,587	22.1%	160,997	26.1%	-4.006	-0.094
Hemophilia	5,026	0.9%	20,615	3.3%	-2.395	-0.166
Leukemia	344	0.1%	117	0.0%	0.046	0.022
Lymphoma	762	0.1%	340	0.1%	0.088	0.028
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	458	0.1%	343	0.1%	0.030	0.011
Sickle cell disease	230	0.0%	222	0.0%	0.007	0.004
Von Willebrand disease	100	0.0%	166	0.0%	-0.008	-0.005
Viral infections	7,266	1.4%	8,372	1.4%	0.008	0.001
Hepatitis B	3,951	0.7%	4,769	0.8%	-0.031	-0.004
Hepatitis C	6,041	1.1%	7,090	1.1%	-0.015	-0.001
Human immunodeficiency virus	808	0.2%	890	0.1%	0.007	0.002
Bacterial infections: Chronic bacteremia	5,906	1.1%	7,556	1.2%	-0.115	-0.011
Anti-infectives	167,552	31.4%	184,757	29.9%	1.521	0.033
Acyclovir	7,880	1.5%	6,682	1.1%	0.397	0.035
Ampicillin	953	0.2%	1,289	0.2%	-0.030	-0.007
Cephalosporin	52,048	9.8%	55,850	9.0%	0.722	0.025
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	33,011	6.2%	41,741	6.8%	-0.565	-0.023
Clindamycin	11,443	2.1%	13,016	2.1%	0.039	0.003
Doxycycline	23,179	4.3%	21,122	3.4%	0.929	0.048
Gentamicin	116	0.0%	219	0.0%	-0.014	-0.008
Griseofulvin	30	0.0%	62	0.0%	-0.004	-0.005
Isoniazid	55	0.0%	93	0.0%	-0.005	-0.004
Ofloxacin	*****	*****	*****	*****	-0.001	-0.003
Penicillin	63,466	11.9%	70,082	11.3%	0.560	0.017
Rifampicin	265	0.0%	435	0.1%	-0.021	-0.008
Trimethoprim-sulfamethoxazole	24,013	4.5%	26,876	4.4%	0.154	0.007
Zidovudine	27	0.0%	76	0.0%	-0.007	-0.008
Nonsteroidal anti-inflammatory drugs	32,395	6.1%	35,175	5.7%	0.383	0.016
Acetylsalicylic acid	4,072	0.8%	5,634	0.9%	-0.148	-0.016
Diclofenac	6,141	1.2%	5,360	0.9%	0.284	0.028
Flurbiprofen	79	0.0%	92	0.0%	-0.000	-0.000
Ibuprofen	13,356	2.5%	12,889	2.1%	0.419	0.028
Indomethacin	1,476	0.3%	2,981	0.5%	-0.206	-0.033
Naproxen	8,752	1.6%	9,679	1.6%	0.075	0.006
Psychoactive drugs	25,088	4.7%	27,514	4.5%	0.252	0.012
Amitriptyline	5,785	1.1%	7,980	1.3%	-0.207	-0.019
Maprotiline	*****	*****	*****	*****	-0.001	-0.002
Trazodone	19,656	3.7%	19,907	3.2%	0.465	0.025
Cardiovascular and diuretic drugs	333,387	62.6%	421,222	68.2%	-5.652	-0.119
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Acebutolol	583	0.1%	610	0.1%	0.011	0.003
Amiodarone	63,950	12.0%	83,776	13.6%	-1.566	-0.047

Table 1e. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Atenolol	37,503	7.0%	62,326	10.1%	-3.055	-0.109
Captopril	800	0.2%	2,290	0.4%	-0.221	-0.043
Diltiazem	85,191	16.0%	94,413	15.3%	0.697	0.019
Furosemide	137,004	25.7%	204,419	33.1%	-7.394	-0.163
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	20,471	3.8%	22,716	3.7%	0.163	0.009
Hydrochlorothiazide	116,238	21.8%	131,286	21.3%	0.551	0.013
Methyldopa	158	0.0%	429	0.1%	-0.040	-0.018
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	71	0.0%	189	0.0%	-0.017	-0.012
Spirolactone	33,200	6.2%	45,295	7.3%	-1.105	-0.044
Beta-adrenergic receptor agonists	60,777	11.4%	68,933	11.2%	0.242	0.008
Terbutaline	17	0.0%	44	0.0%	-0.004	-0.005
Anticonvulsants	3,144	0.6%	6,233	1.0%	-0.419	-0.047
Carbamazepine	1,492	0.3%	2,444	0.4%	-0.116	-0.020
Phenytoin	1,287	0.2%	3,445	0.6%	-0.316	-0.050
Sodium valproate	420	0.1%	468	0.1%	0.003	0.001
Health Service Utilization Intensity in the Prior 183 Days:						
Mean number of ambulatory encounters	10.6	8.4	11.1	8.7	-0.547	-0.064
Mean number of emergency room encounters	0.5	0.9	0.4	0.9	0.059	0.065
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.8	-0.054	-0.067
Mean number of non-acute institutional encounters	0.2	0.6	0.2	0.7	-0.017	-0.026
Mean number of other ambulatory encounters	5.8	10.6	7.1	12.0	-1.258	-0.111
Mean number of unique drug classes	8.4	4.0	8.5	4.0	-0.120	-0.030
Mean number of generics	8.9	4.4	9.1	4.4	-0.127	-0.029
Mean number of filled prescriptions	19.6	15.8	20.1	15.4	-0.507	-0.032

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 1f. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	503,885	94.5%	503,885	81.6%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	75.7	9.5	75.7	9.6	0.023	0.002
Age (years)	Number	Percent	Number	Percent		
21-64	55,661	11.0%	59,659	11.8%	-0.793	-0.028
65-74	177,651	35.3%	165,359	32.8%	2.439	0.052
75-84	175,386	34.8%	185,008	36.7%	-1.910	-0.040
85-99	95,187	18.9%	93,859	18.6%	0.264	0.007
Sex						
Female*	250,782	49.8%	249,931	49.6%	0.169	0.003
Male*	253,103	50.2%	253,954	50.4%	-0.169	-0.003
Race ²						
American Indian or Alaska Native	1,416	0.3%	1,792	0.4%	-0.075	-0.013
Asian	6,424	1.3%	5,470	1.1%	0.189	0.018
Black or African American	26,012	5.2%	25,551	5.1%	0.091	0.004
Native Hawaiian or Other Pacific Islander	558	0.1%	448	0.1%	0.022	0.007
Unknown	77,974	15.5%	74,857	14.9%	0.619	0.031
White	391,501	77.7%	395,767	78.5%	-0.847	-0.027
Hispanic Origin	6,013	1.2%	6,350	1.3%	-0.067	-0.006
Year						
2010	0	0.0%	20,555	4.1%	-4.079	-0.292
2011	0	0.0%	83,620	16.6%	-16.595	-0.631
2012	0	0.0%	79,134	15.7%	-15.705	-0.610
2013	9,655	1.9%	72,070	14.3%	-12.387	-0.466
2014	33,269	6.6%	61,812	12.3%	-5.665	-0.195
2015	59,216	11.8%	53,483	10.6%	1.138	0.036
2016	80,487	16.0%	45,351	9.0%	6.973	0.212
2017	84,094	16.7%	36,805	7.3%	9.385	0.292
2018	114,585	22.7%	28,407	5.6%	17.103	0.506
2019	120,817	24.0%	22,374	4.4%	19.537	0.583
2020	1,762	0.3%	274	0.1%	0.295	0.066
Recorded on Index Date:	Number	Percent	Number	Percent		
Apixaban 2.5 mg	114,444	22.7%	-	0.0%	22.712	-
Apixaban 5 mg	389,729	77.3%	-	0.0%	77.345	-
Warfarin 1 mg	-	0.0%	32,715	6.5%	-6.493	-
Warfarin 2 mg	-	0.0%	57,996	11.5%	-11.510	-
Warfarin 2.5 mg	-	0.0%	64,100	12.7%	-12.721	-
Warfarin 3 mg	-	0.0%	39,337	7.8%	-7.807	-
Warfarin 4 mg	-	0.0%	35,258	7.0%	-6.997	-
Warfarin 5 mg	-	0.0%	271,594	53.9%	-53.900	-
Warfarin 6 mg	-	0.0%	8,506	1.7%	-1.688	-
Warfarin 7.5 mg	-	0.0%	11,096	2.2%	-2.202	-
Warfarin 10 mg	-	0.0%	5,919	1.2%	-1.175	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	3.1	2.7	3.1	2.7	0.015	0.006
	Number	Percent	Number	Percent		
Autoimmune diseases*	28,181	5.6%	27,988	5.6%	0.038	0.002
Addison's disease	4,990	1.0%	4,245	0.8%	0.148	0.016
Autoimmune vasculitis	2,019	0.4%	1,748	0.3%	0.054	0.009
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Celiac disease	854	0.2%	537	0.1%	0.063	0.017
Graves' disease	50	0.0%	12	0.0%	0.008	0.010

Table 1f. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hashimoto's thyroiditis	2,238	0.4%	1,031	0.2%	0.240	0.042
Inflammatory bowel disease	1,151	0.2%	618	0.1%	0.106	0.025
Multiple sclerosis	1,445	0.3%	1,004	0.2%	0.088	0.018
Myasthenia gravis	533	0.1%	345	0.1%	0.037	0.013
Pernicious anemia	3,960	0.8%	3,364	0.7%	0.118	0.014
Psoriatic arthritis	3,100	0.6%	2,166	0.4%	0.185	0.026
Type 1 diabetes	12,788	2.5%	17,142	3.4%	-0.864	-0.051
Hematological blood disorders*	119,827	23.8%	118,851	23.6%	0.194	0.005
Anemia	116,490	23.1%	111,632	22.2%	0.964	0.023
Hemophilia	4,975	1.0%	14,744	2.9%	-1.939	-0.140
Leukemia	343	0.1%	82	0.0%	0.052	0.025
Lymphoma	756	0.2%	212	0.0%	0.108	0.035
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	457	0.1%	247	0.0%	0.042	0.016
Sickle cell disease	224	0.0%	148	0.0%	0.015	0.008
Von Willebrand disease	99	0.0%	112	0.0%	-0.003	-0.002
Viral infections*	6,695	1.3%	6,637	1.3%	0.012	0.001
Hepatitis B	3,625	0.7%	3,801	0.8%	-0.035	-0.004
Hepatitis C	5,555	1.1%	5,687	1.1%	-0.026	-0.002
Human immunodeficiency virus	762	0.2%	706	0.1%	0.011	0.003
Bacterial infections: Chronic bacteremia*	5,730	1.1%	5,688	1.1%	0.008	0.001
Anti-infectives*	155,784	30.9%	154,752	30.7%	0.205	0.004
Acyclovir	7,233	1.4%	5,475	1.1%	0.349	0.031
Ampicillin	902	0.2%	1,106	0.2%	-0.040	-0.009
Cephalosporin	48,614	9.6%	46,500	9.2%	0.420	0.014
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	30,744	6.1%	35,179	7.0%	-0.880	-0.036
Clindamycin	10,666	2.1%	10,810	2.1%	-0.029	-0.002
Doxycycline	21,527	4.3%	17,484	3.5%	0.802	0.042
Gentamicin	112	0.0%	184	0.0%	-0.014	-0.008
Griseofulvin	27	0.0%	53	0.0%	-0.005	-0.006
Isoniazid	52	0.0%	74	0.0%	-0.004	-0.004
Ofloxacin	*****	*****	*****	*****	-0.001	-0.003
Penicillin	58,938	11.7%	58,905	11.7%	0.007	0.000
Rifampicin	246	0.0%	345	0.1%	-0.020	-0.008
Trimethoprim-sulfamethoxazole	22,365	4.4%	22,626	4.5%	-0.052	-0.003
Zidovudine	23	0.0%	62	0.0%	-0.008	-0.008
Nonsteroidal anti-inflammatory drugs*	27,523	5.5%	27,542	5.5%	-0.004	-0.000
Acetylsalicylic acid	2,816	0.6%	2,262	0.4%	0.110	0.016
Diclofenac	5,413	1.1%	4,822	1.0%	0.117	0.012
Flurbiprofen	69	0.0%	82	0.0%	-0.003	-0.002
Ibuprofen	11,482	2.3%	10,517	2.1%	0.192	0.013
Indomethacin	1,260	0.3%	2,549	0.5%	-0.256	-0.042
Naproxen	7,673	1.5%	8,393	1.7%	-0.143	-0.011
Psychoactive drugs*	22,903	4.5%	22,758	4.5%	0.029	0.001
Amitriptyline	5,335	1.1%	6,867	1.4%	-0.304	-0.028
Maprotiline	*****	*****	*****	*****	-0.001	-0.003
Trazodone	17,894	3.6%	16,206	3.2%	0.335	0.019
Cardiovascular and diuretic drugs*	324,774	64.5%	326,541	64.8%	-0.351	-0.007
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Acetabulolol	567	0.1%	509	0.1%	0.012	0.004
Amiodarone	62,223	12.3%	63,945	12.7%	-0.342	-0.010

Table 1f. Cohort of New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Apixaban		Warfarin		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Atenolol	36,694	7.3%	44,592	8.8%	-1.567	-0.058
Captopril	785	0.2%	1,824	0.4%	-0.206	-0.041
Diltiazem	82,583	16.4%	74,865	14.9%	1.532	0.042
Furosemide	133,248	26.4%	159,520	31.7%	-5.214	-0.115
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	19,897	3.9%	17,061	3.4%	0.563	0.030
Hydrochlorothiazide	113,539	22.5%	101,963	20.2%	2.297	0.056
Methyldopa	151	0.0%	326	0.1%	-0.035	-0.016
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	69	0.0%	148	0.0%	-0.016	-0.011
Spironolactone	32,162	6.4%	36,264	7.2%	-0.814	-0.032
Beta-adrenergic receptor agonists*	56,626	11.2%	56,446	11.2%	0.036	0.001
Terbutaline	17	0.0%	38	0.0%	-0.004	-0.006
Anticonvulsants*	3,141	0.6%	3,245	0.6%	-0.021	-0.003
Carbamazepine	1,491	0.3%	1,251	0.2%	0.048	0.009
Phenytoin	1,285	0.3%	1,812	0.4%	-0.105	-0.019
Sodium valproate	420	0.1%	246	0.0%	0.035	0.013
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.6	8.4	11.3	8.8	-0.717	-0.084
Mean number of emergency room encounters	0.5	0.9	0.4	0.9	0.075	0.084
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.8	-0.036	-0.045
Mean number of non-acute institutional encounters	0.2	0.6	0.2	0.7	-0.023	-0.035
Mean number of other ambulatory encounters	5.9	10.8	6.8	11.9	-0.895	-0.079
Mean number of unique drug classes	8.5	3.9	8.5	4.0	-0.002	-0.001
Mean number of generics	9.0	4.4	9.0	4.4	0.006	0.001
Mean number of filled prescriptions	19.7	15.8	20.1	15.6	-0.449	-0.029

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

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

Table 1g. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	331,948	100.0%	144,532	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	73.4	9.6	72.7	9.9	0.619	0.064
Age (years)	Number	Percent	Number	Percent		
21-64	55,615	16.8%	27,868	19.3%	-2.527	-0.066
65-74	125,862	37.9%	53,680	37.1%	0.776	0.016
75-84	106,043	31.9%	45,151	31.2%	0.706	0.015
85-99	44,428	13.4%	17,833	12.3%	1.046	0.031
Sex						
Female	151,131	45.5%	64,965	44.9%	0.580	0.012
Male	180,817	54.5%	79,567	55.1%	-0.580	-0.012
Race ²						
American Indian or Alaska Native	1,033	0.3%	472	0.3%	-0.015	-0.003
Asian	4,472	1.3%	3,611	2.5%	-1.151	-0.084
Black or African American	16,067	4.8%	6,390	4.4%	0.419	0.020
Native Hawaiian or Other Pacific Islander	360	0.1%	203	0.1%	-0.032	-0.009
Unknown	65,982	19.9%	27,388	18.9%	0.928	0.023
White	244,034	73.5%	106,468	73.7%	-0.148	-0.003
Hispanic Origin	4,614	1.4%	3,012	2.1%	-0.694	-0.053
Year						
2010	0	0.0%	1,657	1.1%	-1.146	-0.152
2011	252	0.1%	34,859	24.1%	-24.043	-0.793
2012	17,534	5.3%	27,324	18.9%	-13.623	-0.427
2013	39,865	12.0%	16,645	11.5%	0.493	0.015
2014	50,731	15.3%	12,123	8.4%	6.895	0.215
2015	44,234	13.3%	9,791	6.8%	6.551	0.219
2016	43,522	13.1%	13,525	9.4%	3.753	0.119
2017	51,117	15.4%	12,696	8.8%	6.615	0.204
2018	45,833	13.8%	10,280	7.1%	6.695	0.220
2019	38,327	11.5%	5,609	3.9%	7.665	0.290
2020	533	0.2%	23	0.0%	0.145	0.049
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	638	0.2%	-	0.0%	0.192	-
Rivaroxaban 10 mg	12,382	3.7%	-	0.0%	3.730	-
Rivaroxaban 15 mg	70,170	21.1%	-	0.0%	21.139	-
Rivaroxaban 20 mg	249,638	75.2%	-	0.0%	75.204	-
Dabigatran 75 mg	-	0.0%	18,954	13.1%	-13.114	-
Dabigatran 110 mg	-	0.0%	1,106	0.8%	-0.765	-
Dabigatran 150 mg	-	0.0%	124,527	86.2%	-86.159	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	2.6	2.4	2.4	2.2	0.226	0.097
	Number	Percent	Number	Percent		
Autoimmune diseases	16,834	5.1%	7,668	5.3%	-0.234	-0.011
Addison's disease	3,007	0.9%	1,361	0.9%	-0.036	-0.004
Autoimmune vasculitis	983	0.3%	400	0.3%	0.019	0.004
Celiac disease	481	0.1%	210	0.1%	-0.000	-0.000
Graves' disease	*****	*****	*****	*****	0.004	0.006
Hashimoto's thyroiditis	1,221	0.4%	377	0.3%	0.107	0.019
Inflammatory bowel disease	422	0.1%	105	0.1%	0.054	0.017
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Multiple sclerosis	842	0.3%	299	0.2%	0.047	0.010
Myasthenia gravis	248	0.1%	97	0.1%	0.008	0.003

Table 1g. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Pernicious anemia	2,452	0.7%	1,137	0.8%	-0.048	-0.006
Psoriatic arthritis	1,728	0.5%	816	0.6%	-0.044	-0.006
Type 1 diabetes	8,396	2.5%	4,210	2.9%	-0.384	-0.024
Hematological blood disorders	62,284	18.8%	24,824	17.2%	1.588	0.041
Anemia	60,370	18.2%	23,826	16.5%	1.702	0.045
Hemophilia	2,836	0.9%	1,435	1.0%	-0.139	-0.014
Leukemia	122	0.0%	27	0.0%	0.018	0.011
Lymphoma	298	0.1%	80	0.1%	0.034	0.013
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	132	0.0%	52	0.0%	0.004	0.002
Sickle cell disease	132	0.0%	45	0.0%	0.009	0.005
Von Willebrand disease	41	0.0%	26	0.0%	-0.006	-0.005
Viral infections	4,470	1.3%	1,972	1.4%	-0.018	-0.002
Hepatitis B	2,378	0.7%	1,038	0.7%	-0.002	-0.000
Hepatitis C	3,812	1.1%	1,539	1.1%	0.084	0.008
Human immunodeficiency virus	454	0.1%	292	0.2%	-0.065	-0.016
Bacterial infections: Chronic bacteremia	2,532	0.8%	808	0.6%	0.204	0.025
Anti-infectives	99,453	30.0%	41,183	28.5%	1.466	0.032
Acyclovir	4,926	1.5%	2,124	1.5%	0.014	0.001
Ampicillin	571	0.2%	236	0.2%	0.009	0.002
Cephalosporin	28,678	8.6%	11,464	7.9%	0.707	0.026
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	20,682	6.2%	9,234	6.4%	-0.158	-0.007
Clindamycin	6,973	2.1%	2,732	1.9%	0.210	0.015
Doxycycline	12,267	3.7%	4,794	3.3%	0.379	0.021
Gentamicin	88	0.0%	29	0.0%	0.006	0.004
Griseofulvin	30	0.0%	23	0.0%	-0.007	-0.006
Isoniazid	33	0.0%	18	0.0%	-0.003	-0.002
Ofloxacin	*****	*****	*****	*****	-0.003	-0.006
Penicillin	38,827	11.7%	15,524	10.7%	0.956	0.030
Rifampicin	160	0.0%	63	0.0%	0.005	0.002
Trimethoprim-sulfamethoxazole	14,454	4.4%	5,848	4.0%	0.308	0.015
Zidovudine	23	0.0%	21	0.0%	-0.008	-0.007
Nonsteroidal anti-inflammatory drugs	21,843	6.6%	10,381	7.2%	-0.602	-0.024
Acetylsalicylic acid	2,199	0.7%	1,958	1.4%	-0.692	-0.069
Diclofenac	4,045	1.2%	1,553	1.1%	0.144	0.014
Flurbiprofen	55	0.0%	35	0.0%	-0.008	-0.005
Ibuprofen	9,054	2.7%	3,839	2.7%	0.071	0.004
Indomethacin	1,215	0.4%	805	0.6%	-0.191	-0.028
Naproxen	6,280	1.9%	2,688	1.9%	0.032	0.002
Psychoactive drugs	14,220	4.3%	5,620	3.9%	0.395	0.020
Amitriptyline	3,676	1.1%	1,628	1.1%	-0.019	-0.002
Maprotiline	*****	*****	*****	*****	0.001	0.002
Trazodone	10,741	3.2%	4,063	2.8%	0.425	0.025
Cardiovascular and diuretic drugs	202,436	61.0%	90,367	62.5%	-1.540	-0.032
Acebutolol	386	0.1%	161	0.1%	0.005	0.001
Amiodarone	35,388	10.7%	14,817	10.3%	0.409	0.013
Atenolol	26,289	7.9%	15,283	10.6%	-2.655	-0.092
Captopril	650	0.2%	397	0.3%	-0.079	-0.016
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Diltiazem	54,232	16.3%	24,746	17.1%	-0.784	-0.021
Furosemide	74,921	22.6%	32,778	22.7%	-0.109	-0.003

Table 1g. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	8,927	2.7%	3,324	2.3%	0.389	0.025
Hydrochlorothiazide	75,116	22.6%	33,134	22.9%	-0.296	-0.007
Methyldopa	107	0.0%	81	0.1%	-0.024	-0.011
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	47	0.0%	48	0.0%	-0.019	-0.012
Spirolactone	18,275	5.5%	7,388	5.1%	0.394	0.018
Beta-adrenergic receptor agonists	35,171	10.6%	14,879	10.3%	0.301	0.010
Terbutaline	18	0.0%	14	0.0%	-0.004	-0.005
Anticonvulsants	2,032	0.6%	1,097	0.8%	-0.147	-0.018
Carbamazepine	906	0.3%	475	0.3%	-0.056	-0.010
Phenytoin	952	0.3%	556	0.4%	-0.098	-0.017
Sodium valproate	207	0.1%	83	0.1%	0.005	0.002
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.0	8.0	9.4	7.7	0.553	0.071
Mean number of emergency room encounters	0.4	0.9	0.4	0.8	0.014	0.016
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	0.015	0.022
Mean number of non-acute institutional encounters	0.1	0.5	0.1	0.5	0.035	0.068
Mean number of other ambulatory encounters	4.7	9.4	4.5	8.1	0.180	0.020
Mean number of unique drug classes	8.1	3.9	7.9	3.8	0.127	0.033
Mean number of generics	8.5	4.3	8.4	4.3	0.133	0.031
Mean number of filled prescriptions	19.1	15.6	19.0	15.0	0.033	0.002

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 1h. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	125,338	37.8%	125,338	86.7%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	73.1	9.5	73.1	9.6	-0.020	-0.002
Age (years)	Number	Percent	Number	Percent		
21-64	21,860	17.4%	22,374	17.9%	-0.410	-0.013
65-74	47,909	38.2%	46,534	37.1%	1.097	0.023
75-84	39,514	31.5%	40,307	32.2%	-0.633	-0.014
85-99	16,055	12.8%	16,123	12.9%	-0.054	-0.002
Sex						
Female*	56,980	45.5%	57,242	45.7%	-0.209	-0.004
Male*	68,358	54.5%	68,096	54.3%	0.209	0.004
Race ²						
American Indian or Alaska Native	365	0.3%	336	0.3%	0.023	0.004
Asian	1,699	1.4%	1,833	1.5%	-0.107	-0.009
Black or African American	5,714	4.6%	5,448	4.3%	0.212	0.010
Native Hawaiian or Other Pacific Islander	126	0.1%	88	0.1%	0.030	0.010
Unknown	26,525	21.2%	26,023	20.8%	0.401	0.018
White	90,909	72.5%	91,610	73.1%	-0.559	-0.018
Hispanic Origin	1,743	1.4%	1,666	1.3%	0.061	0.005
Year						
2010	0	0.0%	1,649	1.3%	-1.316	-0.163
2011	85	0.1%	34,611	27.6%	-27.546	-0.870
2012	6,861	5.5%	27,036	21.6%	-16.096	-0.484
2013	15,307	12.2%	16,387	13.1%	-0.862	-0.026
2014	19,313	15.4%	11,340	9.0%	6.361	0.195
2015	16,893	13.5%	8,219	6.6%	6.920	0.232
2016	16,279	13.0%	10,464	8.3%	4.639	0.151
2017	19,049	15.2%	8,102	6.5%	8.734	0.284
2018	17,133	13.7%	4,917	3.9%	9.746	0.349
2019	14,202	11.3%	2,590	2.1%	9.265	0.377
2020	216	0.2%	23	0.0%	0.154	0.050
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	216	0.2%	-	0.0%	0.172	-
Rivaroxaban 10 mg	4,558	3.6%	-	0.0%	3.637	-
Rivaroxaban 15 mg	25,244	20.1%	-	0.0%	20.141	-
Rivaroxaban 20 mg	95,651	76.3%	-	0.0%	76.314	-
Dabigatran 75 mg	-	0.0%	17,932	14.3%	-14.307	-
Dabigatran 110 mg	-	0.0%	310	0.2%	-0.247	-
Dabigatran 150 mg	-	0.0%	107,142	85.5%	-85.482	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ^{3*}	2.4	2.2	2.4	2.3	-0.025	-0.011
	Number	Percent	Number	Percent		
Autoimmune diseases*	6,856	5.5%	7,101	5.7%	-0.195	-0.009
Addison's disease	1,279	1.0%	1,316	1.0%	-0.030	-0.003
Autoimmune vasculitis	441	0.4%	367	0.3%	0.059	0.010
Celiac disease	190	0.2%	174	0.1%	0.013	0.003
Graves' disease	*****	*****	*****	*****	0.007	0.009
Hashimoto's thyroiditis	507	0.4%	340	0.3%	0.133	0.023
Inflammatory bowel disease	154	0.1%	94	0.1%	0.048	0.015
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Multiple sclerosis	331	0.3%	269	0.2%	0.049	0.010
Myasthenia gravis	102	0.1%	85	0.1%	0.014	0.005

Table 1h. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Pernicious anemia	1,048	0.8%	1,126	0.9%	-0.062	-0.007
Psoriatic arthritis	731	0.6%	541	0.4%	0.152	0.021
Type 1 diabetes	3,298	2.6%	4,116	3.3%	-0.653	-0.039
Hematological blood disorders*	22,732	18.1%	23,321	18.6%	-0.470	-0.012
Anemia	21,974	17.5%	22,412	17.9%	-0.349	-0.009
Hemophilia	1,019	0.8%	1,377	1.1%	-0.286	-0.029
Leukemia	43	0.0%	20	0.0%	0.018	0.012
Lymphoma	137	0.1%	41	0.0%	0.077	0.029
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	49	0.0%	40	0.0%	0.007	0.004
Sickle cell disease	62	0.0%	37	0.0%	0.020	0.010
Von Willebrand disease	17	0.0%	21	0.0%	-0.003	-0.003
Viral infections*	1,608	1.3%	1,629	1.3%	-0.017	-0.001
Hepatitis B	868	0.7%	876	0.7%	-0.006	-0.001
Hepatitis C	1,331	1.1%	1,317	1.1%	0.011	0.001
Human immunodeficiency virus	186	0.1%	238	0.2%	-0.041	-0.010
Bacterial infections: Chronic bacteremia*	674	0.5%	724	0.6%	-0.040	-0.005
Anti-infectives*	36,170	28.9%	36,912	29.4%	-0.592	-0.013
Acyclovir	1,821	1.5%	1,738	1.4%	0.066	0.006
Ampicillin	220	0.2%	233	0.2%	-0.010	-0.002
Cephalosporin	10,308	8.2%	10,084	8.0%	0.179	0.007
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	7,414	5.9%	8,661	6.9%	-0.995	-0.041
Clindamycin	2,550	2.0%	2,476	2.0%	0.059	0.004
Doxycycline	4,432	3.5%	4,058	3.2%	0.298	0.016
Gentamicin	32	0.0%	29	0.0%	0.002	0.002
Griseofulvin	11	0.0%	23	0.0%	-0.010	-0.008
Isoniazid	*****	*****	*****	*****	-0.002	-0.002
Ofloxacin	*****	*****	*****	*****	-0.004	-
Penicillin	14,307	11.4%	14,095	11.2%	0.169	0.005
Rifampicin	59	0.0%	57	0.0%	0.002	0.001
Trimethoprim-sulfamethoxazole	5,088	4.1%	5,415	4.3%	-0.261	-0.013
Zidovudine	12	0.0%	18	0.0%	-0.005	-0.004
Nonsteroidal anti-inflammatory drugs*	7,450	5.9%	7,736	6.2%	-0.228	-0.010
Acetylsalicylic acid	774	0.6%	405	0.3%	0.294	0.043
Diclofenac	1,356	1.1%	1,518	1.2%	-0.129	-0.012
Flurbiprofen	20	0.0%	35	0.0%	-0.012	-0.008
Ibuprofen	3,089	2.5%	2,941	2.3%	0.118	0.008
Indomethacin	430	0.3%	760	0.6%	-0.263	-0.038
Naproxen	2,131	1.7%	2,401	1.9%	-0.215	-0.016
Psychoactive drugs*	4,528	3.6%	4,724	3.8%	-0.156	-0.008
Amitriptyline	1,196	1.0%	1,578	1.3%	-0.305	-0.029
Maprotiline	*****	*****	*****	*****	0.001	0.002
Trazodone	3,394	2.7%	3,214	2.6%	0.144	0.009
Cardiovascular and diuretic drugs*	78,397	62.5%	78,834	62.9%	-0.349	-0.007
Acebutolol	160	0.1%	160	0.1%	0.000	0.000
Amiodarone	13,277	10.6%	13,763	11.0%	-0.388	-0.013
Atenolol	10,560	8.4%	11,442	9.1%	-0.704	-0.025
Captopril	245	0.2%	392	0.3%	-0.117	-0.023
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Diltiazem	21,142	16.9%	21,755	17.4%	-0.489	-0.013
Furosemide	27,198	21.7%	29,525	23.6%	-1.857	-0.045

Table 1h. Cohort of New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Dabigatran		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Guanethidine	-	0.0%	-	0.0%	0.000	-
Hydralazine	3,172	2.5%	2,861	2.3%	0.248	0.016
Hydrochlorothiazide	29,955	23.9%	29,309	23.4%	0.515	0.012
Methyldopa	40	0.0%	70	0.1%	-0.024	-0.011
Procinamide	-	0.0%	-	0.0%	0.000	-
Quinidine	16	0.0%	45	0.0%	-0.023	-0.015
Spironolactone	6,658	5.3%	6,848	5.5%	-0.152	-0.007
Beta-adrenergic receptor agonists*	12,199	9.7%	12,661	10.1%	-0.369	-0.012
Terbutaline	*****	*****	*****	*****	-0.006	-0.007
Anticonvulsants*	1,015	0.8%	1,014	0.8%	0.001	0.000
Carbamazepine	468	0.4%	433	0.3%	0.028	0.005
Phenytoin	462	0.4%	532	0.4%	-0.056	-0.009
Sodium valproate	97	0.1%	65	0.1%	0.026	0.010
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	9.8	7.8	10.0	8.0	-0.266	-0.034
Mean number of emergency room encounters	0.4	0.9	0.4	0.8	0.049	0.057
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.043	-0.062
Mean number of non-acute institutional encounters	0.1	0.5	0.1	0.5	-0.001	-0.002
Mean number of other ambulatory encounters	4.3	8.6	4.4	8.4	-0.132	-0.016
Mean number of unique drug classes	7.9	3.8	8.1	3.9	-0.221	-0.058
Mean number of generics	8.3	4.2	8.6	4.3	-0.255	-0.059
Mean number of filled prescriptions	18.6	15.1	20.2	15.8	-1.599	-0.104

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

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

Table 1i. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	333,441	100.0%	536,262	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	73.3	9.6	75.5	9.6	-2.174	-0.227
Age (years)	Number	Percent	Number	Percent		
21-64	56,046	16.8%	65,962	12.3%	4.508	0.128
65-74	126,381	37.9%	184,478	34.4%	3.501	0.073
75-84	106,494	31.9%	183,987	34.3%	-2.371	-0.050
85-99	44,520	13.4%	101,835	19.0%	-5.638	-0.154
Sex						
Female	151,683	45.5%	268,441	50.1%	-4.568	-0.092
Male	181,758	54.5%	267,821	49.9%	4.568	0.092
Race ²						
American Indian or Alaska Native	1,038	0.3%	1,501	0.3%	0.031	0.006
Asian	4,493	1.3%	6,778	1.3%	0.084	0.007
Black or African American	16,122	4.8%	27,418	5.1%	-0.278	-0.013
Native Hawaiian or Other Pacific Islander	361	0.1%	608	0.1%	-0.005	-0.002
Unknown	66,383	19.9%	90,575	16.9%	3.018	0.078
White	245,044	73.5%	409,382	76.3%	-2.850	-0.066
Hispanic Origin	4,626	1.4%	6,435	1.2%	0.187	0.017
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	255	0.1%	-	0.0%	0.076	-
2012	17,784	5.3%	-	0.0%	5.333	-
2013	40,473	12.1%	10,313	1.9%	10.215	0.408
2014	51,356	15.4%	35,335	6.6%	8.813	0.285
2015	44,656	13.4%	62,604	11.7%	1.718	0.052
2016	43,752	13.1%	85,594	16.0%	-2.840	-0.081
2017	51,055	15.3%	89,825	16.8%	-1.439	-0.039
2018	45,627	13.7%	121,934	22.8%	-9.056	-0.236
2019	37,956	11.5%	128,500	24.1%	-12.617	-0.334
2020	527	1.1%	2,157	3.0%	-1.942	-0.138
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	624	0.2%	-	0.0%	0.187	-
Rivaroxaban 10 mg	12,412	3.7%	-	0.0%	3.722	-
Rivaroxaban 15 mg	70,349	21.1%	-	0.0%	21.098	-
Rivaroxaban 20 mg	250,936	75.3%	-	0.0%	75.256	-
Apixaban 2.5 mg	-	0.0%	121,712	22.7%	-22.696	-
Apixaban 5 mg	-	0.0%	414,864	77.4%	-77.362	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	2.6	2.4	3.2	2.7	-0.551	-0.217
	Number	Percent	Number	Percent		
Autoimmune diseases	16,918	5.1%	28,816	5.4%	-0.300	-0.013
Addison's disease	3,036	0.9%	5,046	0.9%	-0.030	-0.003
Autoimmune vasculitis	988	0.3%	2,055	0.4%	-0.087	-0.015
Celiac disease	483	0.1%	872	0.2%	-0.018	-0.005
Graves' disease	26	0.0%	53	0.0%	-0.002	-0.002
Hashimoto's thyroiditis	1,219	0.4%	2,310	0.4%	-0.065	-0.010
Inflammatory bowel disease	421	0.1%	1,172	0.2%	-0.092	-0.022
Multiple sclerosis	847	0.3%	1,469	0.3%	-0.020	-0.004
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Myasthenia gravis	249	0.1%	538	0.1%	-0.026	-0.009
Pernicious anemia	2,478	0.7%	3,993	0.7%	-0.001	-0.000

Table 1i. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Psoriatic arthritis	1,733	0.5%	3,154	0.6%	-0.068	-0.009
Type 1 diabetes	8,438	2.5%	13,149	2.5%	0.079	0.005
Hematological blood disorders	62,480	18.7%	122,055	22.8%	-4.022	-0.099
Anemia	60,559	18.2%	118,658	22.1%	-3.965	-0.099
Hemophilia	2,849	0.9%	5,082	0.9%	-0.093	-0.010
Leukemia	123	0.0%	339	0.1%	-0.026	-0.012
Lymphoma	297	0.1%	768	0.1%	-0.054	-0.016
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	133	0.0%	459	0.1%	-0.046	-0.018
Sickle cell disease	132	0.0%	231	0.0%	-0.003	-0.002
Von Willebrand disease	40	0.0%	101	0.0%	-0.007	-0.006
Viral infections	4,489	1.3%	7,335	1.4%	-0.022	-0.002
Hepatitis B	2,385	0.7%	3,986	0.7%	-0.028	-0.003
Hepatitis C	3,829	1.1%	6,081	1.1%	0.014	0.001
Human immunodeficiency virus	459	0.1%	828	0.2%	-0.017	-0.004
Bacterial infections: Chronic bacteremia	2,537	0.8%	5,981	1.1%	-0.354	-0.037
Anti-infectives	99,867	30.0%	168,731	31.5%	-1.514	-0.033
Acyclovir	4,950	1.5%	7,890	1.5%	0.013	0.001
Ampicillin	572	0.2%	966	0.2%	-0.009	-0.002
Cephalosporin	28,781	8.6%	52,528	9.8%	-1.164	-0.040
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	20,786	6.2%	33,271	6.2%	0.030	0.001
Clindamycin	6,983	2.1%	11,499	2.1%	-0.050	-0.003
Doxycycline	12,295	3.7%	23,364	4.4%	-0.670	-0.034
Gentamicin	88	0.0%	120	0.0%	0.004	0.003
Griseofulvin	30	0.0%	30	0.0%	0.003	0.004
Isoniazid	33	0.0%	57	0.0%	-0.001	-0.001
Ofloxacin	*****	*****	*****	*****	-0.000	-0.000
Penicillin	39,013	11.7%	63,908	11.9%	-0.217	-0.007
Rifampicin	160	0.0%	264	0.0%	-0.001	-0.001
Trimethoprim-sulfamethoxazole	14,495	4.3%	24,174	4.5%	-0.161	-0.008
Zidovudine	23	0.0%	27	0.0%	0.002	0.002
Nonsteroidal anti-inflammatory drugs	21,935	6.6%	32,398	6.0%	0.537	0.022
Acetylsalicylic acid	2,195	0.7%	4,052	0.8%	-0.097	-0.012
Diclofenac	4,062	1.2%	6,139	1.1%	0.073	0.007
Flurbiprofen	56	0.0%	81	0.0%	0.002	0.001
Ibuprofen	9,091	2.7%	13,340	2.5%	0.239	0.015
Indomethacin	1,238	0.4%	1,492	0.3%	0.093	0.016
Naproxen	6,306	1.9%	8,771	1.6%	0.256	0.019
Psychoactive drugs	14,273	4.3%	25,322	4.7%	-0.441	-0.021
Amitriptyline	3,692	1.1%	5,838	1.1%	0.019	0.002
Maprotiline	*****	*****	*****	*****	0.002	0.005
Trazodone	10,777	3.2%	19,836	3.7%	-0.467	-0.026
Cardiovascular and diuretic drugs	203,334	61.0%	335,706	62.6%	-1.621	-0.033
Acebutolol	396	0.1%	587	0.1%	0.009	0.003
Amiodarone	35,570	10.7%	64,453	12.0%	-1.351	-0.043
Atenolol	26,430	7.9%	37,624	7.0%	0.910	0.035
Captopril	653	0.2%	808	0.2%	0.045	0.011
Diltiazem	54,457	16.3%	85,660	16.0%	0.358	0.010
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Furosemide	75,228	22.6%	138,593	25.8%	-3.283	-0.077
Guanethidine	-	0.0%	-	0.0%	0.000	-

Table 1i. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hydralazine	8,935	2.7%	20,667	3.9%	-1.174	-0.066
Hydrochlorothiazide	75,437	22.6%	116,527	21.7%	0.894	0.022
Methyldopa	105	0.0%	158	0.0%	0.002	0.001
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	47	0.0%	71	0.0%	0.001	0.001
Spirolactone	18,385	5.5%	33,582	6.3%	-0.749	-0.032
Beta-adrenergic receptor agonists	35,303	10.6%	61,175	11.4%	-0.820	-0.026
Terbutaline	18	0.0%	17	0.0%	0.002	0.003
Anticonvulsants	2,038	0.6%	3,181	0.6%	0.018	0.002
Carbamazepine	907	0.3%	1,497	0.3%	-0.007	-0.001
Phenytoin	956	0.3%	1,309	0.2%	0.043	0.008
Sodium valproate	206	0.1%	428	0.1%	-0.018	-0.007
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.0	8.0	10.6	8.4	-0.642	-0.078
Mean number of emergency room encounters	0.4	0.9	0.5	0.9	-0.034	-0.038
Mean number of inpatient hospital encounters	0.5	0.7	0.6	0.8	-0.092	-0.124
Mean number of non-acute institutional encounters	0.1	0.5	0.2	0.6	-0.060	-0.099
Mean number of other ambulatory encounters	4.7	9.4	5.8	10.7	-1.127	-0.112
Mean number of unique drug classes	8.1	3.9	8.4	4.0	-0.380	-0.097
Mean number of generics	8.5	4.3	8.9	4.4	-0.412	-0.094
Mean number of filled prescriptions	19.1	15.6	19.6	15.8	-0.557	-0.035

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 1j. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	331,796	99.5%	331,796	61.9%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	73.5	9.5	73.5	9.6	-0.055	-0.006
Age (years)	Number	Percent	Number	Percent		
21-64	54,619	16.5%	54,416	16.4%	0.061	0.002
65-74	126,208	38.0%	126,649	38.2%	-0.133	-0.003
75-84	106,461	32.1%	104,655	31.5%	0.544	0.012
85-99	44,508	13.4%	46,076	13.9%	-0.473	-0.014
Sex						
Female*	151,484	45.7%	152,046	45.8%	-0.169	-0.003
Male*	180,312	54.3%	179,750	54.2%	0.169	0.003
Race ²						
American Indian or Alaska Native	1,032	0.3%	910	0.3%	0.037	0.007
Asian	4,478	1.3%	3,924	1.2%	0.167	0.015
Black or African American	16,074	4.8%	15,861	4.8%	0.064	0.003
Native Hawaiian or Other Pacific Islander	357	0.1%	342	0.1%	0.005	0.001
Unknown	65,396	19.7%	64,896	19.6%	0.151	0.007
White	244,459	73.7%	245,863	74.1%	-0.423	-0.013
Hispanic Origin	4,604	1.4%	3,599	1.1%	0.303	0.027
Year						
2010	0	0.0%	0	0.0%	0.000	NaN
2011	253	0.1%	0	0.0%	0.076	0.039
2012	17,719	5.3%	0	0.0%	5.340	0.336
2013	40,286	12.1%	6,866	2.1%	10.072	0.400
2014	51,081	15.4%	22,666	6.8%	8.564	0.275
2015	44,406	13.4%	39,852	12.0%	1.373	0.041
2016	43,492	13.1%	52,732	15.9%	-2.785	-0.079
2017	50,797	15.3%	55,243	16.6%	-1.340	-0.037
2018	45,402	13.7%	74,698	22.5%	-8.830	-0.231
2019	37,833	11.4%	78,307	23.6%	-12.198	-0.325
2020	527	0.2%	1,432	0.4%	-0.273	-0.050
Recorded on Index Date:	Number	Percent	Number	Percent		
Rivaroxaban 2.5 mg	624	0.2%	-	0.0%	0.188	-
Rivaroxaban 10 mg	12,372	3.7%	-	0.0%	3.729	-
Rivaroxaban 15 mg	70,280	21.2%	-	0.0%	21.182	-
Rivaroxaban 20 mg	249,392	75.2%	-	0.0%	75.164	-
Apixaban 2.5 mg	-	0.0%	58,894	17.8%	-17.750	-
Apixaban 5 mg	-	0.0%	273,055	82.3%	-82.296	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ^{3*}	2.6	2.4	2.6	2.4	0.017	0.007
	Number	Percent	Number	Percent		
Autoimmune diseases*	16,865	5.1%	16,526	5.0%	0.102	0.005
Addison's disease	3,035	0.9%	2,716	0.8%	0.096	0.010
Autoimmune vasculitis	984	0.3%	1,196	0.4%	-0.064	-0.011
Celiac disease	481	0.1%	521	0.2%	-0.012	-0.003
Graves' disease	25	0.0%	35	0.0%	-0.003	-0.003
Hashimoto's thyroiditis	1,216	0.4%	1,459	0.4%	-0.073	-0.012
Inflammatory bowel disease	421	0.1%	613	0.2%	-0.058	-0.015
Multiple sclerosis	844	0.3%	929	0.3%	-0.026	-0.005
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Myasthenia gravis	249	0.1%	316	0.1%	-0.020	-0.007
Pernicious anemia	2,478	0.7%	2,101	0.6%	0.114	0.014

Table 1j. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Psoriatic arthritis	1,722	0.5%	1,995	0.6%	-0.082	-0.011
Type 1 diabetes	8,410	2.5%	7,273	2.2%	0.343	0.023
Hematological blood disorders*	62,424	18.8%	60,867	18.3%	0.469	0.012
Anemia	60,506	18.2%	58,952	17.8%	0.468	0.012
Hemophilia	2,845	0.9%	2,514	0.8%	0.100	0.011
Leukemia	122	0.0%	207	0.1%	-0.026	-0.012
Lymphoma	297	0.1%	424	0.1%	-0.038	-0.012
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	132	0.0%	222	0.1%	-0.027	-0.012
Sickle cell disease	132	0.0%	134	0.0%	-0.001	-0.000
Von Willebrand disease	40	0.0%	59	0.0%	-0.006	-0.005
Viral infections*	4,449	1.3%	4,402	1.3%	0.014	0.001
Hepatitis B	2,360	0.7%	2,264	0.7%	0.029	0.003
Hepatitis C	3,801	1.1%	3,532	1.1%	0.081	0.008
Human immunodeficiency virus	448	0.1%	628	0.2%	-0.054	-0.013
Bacterial infections: Chronic bacteremia*	2,529	0.8%	2,477	0.7%	0.016	0.002
Anti-infectives*	99,479	30.0%	98,481	29.7%	0.301	0.007
Acyclovir	4,923	1.5%	5,042	1.5%	-0.036	-0.003
Ampicillin	571	0.2%	503	0.2%	0.020	0.005
Cephalosporin	28,692	8.6%	29,036	8.8%	-0.104	-0.004
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	20,737	6.2%	18,426	5.6%	0.697	0.030
Clindamycin	6,962	2.1%	6,839	2.1%	0.037	0.003
Doxycycline	12,244	3.7%	13,513	4.1%	-0.382	-0.020
Gentamicin	88	0.0%	61	0.0%	0.008	0.005
Griseofulvin	30	0.0%	17	0.0%	0.004	0.005
Isoniazid	33	0.0%	27	0.0%	0.002	0.002
Ofloxacin	*****	*****	*****	*****	0.000	-
Penicillin	38,821	11.7%	38,697	11.7%	0.037	0.001
Rifampicin	160	0.0%	162	0.0%	-0.001	-0.000
Trimethoprim-sulfamethoxazole	14,452	4.4%	13,626	4.1%	0.249	0.012
Zidovudine	23	0.0%	19	0.0%	0.001	0.002
Nonsteroidal anti-inflammatory drugs*	21,809	6.6%	21,498	6.5%	0.094	0.004
Acetylsalicylic acid	2,164	0.7%	2,708	0.8%	-0.164	-0.019
Diclofenac	4,051	1.2%	4,125	1.2%	-0.022	-0.002
Flurbiprofen	56	0.0%	53	0.0%	0.001	0.001
Ibuprofen	9,035	2.7%	8,772	2.6%	0.079	0.005
Indomethacin	1,232	0.4%	1,010	0.3%	0.067	0.012
Naproxen	6,277	1.9%	5,811	1.8%	0.140	0.011
Psychoactive drugs*	14,211	4.3%	13,954	4.2%	0.077	0.004
Amitriptyline	3,678	1.1%	3,368	1.0%	0.093	0.009
Maprotiline	*****	*****	*****	*****	0.002	0.004
Trazodone	10,729	3.2%	10,772	3.2%	-0.013	-0.001
Cardiovascular and diuretic drugs*	202,532	61.0%	202,482	61.0%	0.015	0.000
Acebutolol	393	0.1%	381	0.1%	0.004	0.001
Amiodarone	35,498	10.7%	37,000	11.2%	-0.453	-0.015
Atenolol	26,271	7.9%	23,567	7.1%	0.815	0.031
Captopril	653	0.2%	466	0.1%	0.056	0.014
Diltiazem	54,146	16.3%	53,754	16.2%	0.118	0.003
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Furosemide	75,101	22.6%	74,500	22.5%	0.181	0.004
Guanethidine	-	0.0%	-	0.0%	0.000	-

Table 1j. Cohort of New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Rivaroxaban		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hydralazine	8,918	2.7%	10,922	3.3%	-0.604	-0.035
Hydrochlorothiazide	75,153	22.7%	74,658	22.5%	0.149	0.004
Methyldopa	105	0.0%	97	0.0%	0.002	0.001
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	46	0.0%	39	0.0%	0.002	0.002
Spirolactone	18,343	5.5%	18,982	5.7%	-0.193	-0.008
Beta-adrenergic receptor agonists*	35,202	10.6%	34,703	10.5%	0.150	0.005
Terbutaline	*****	*****	*****	*****	0.003	0.005
Anticonvulsants*	2,032	0.6%	1,947	0.6%	0.026	0.003
Carbamazepine	904	0.3%	932	0.3%	-0.008	-0.002
Phenytoin	953	0.3%	821	0.2%	0.040	0.008
Sodium valproate	206	0.1%	232	0.1%	-0.008	-0.003
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.0	8.0	10.2	8.1	-0.189	-0.023
Mean number of emergency room encounters	0.4	0.9	0.5	0.9	-0.016	-0.018
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.010	-0.014
Mean number of non-acute institutional encounters	0.1	0.5	0.1	0.5	-0.001	-0.002
Mean number of other ambulatory encounters	4.7	9.4	4.7	9.1	0.020	0.002
Mean number of unique drug classes	8.1	3.9	8.1	3.8	-0.000	-0.000
Mean number of generics	8.5	4.3	8.5	4.3	0.003	0.001
Mean number of filled prescriptions	19.1	15.6	18.6	15.0	0.472	0.031

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

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

Table 1k. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	143,200	100.0%	539,738	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age (years)	72.8	9.8	75.5	9.6	-2.757	-0.284
Age (years)	Number	Percent	Number	Percent		
21-64	27,496	19.2%	66,284	12.3%	6.920	0.191
65-74	53,119	37.1%	185,551	34.4%	2.716	0.057
75-84	44,840	31.3%	185,434	34.4%	-3.043	-0.065
85-99	17,745	12.4%	102,469	19.0%	-6.593	-0.182
Sex						
Female	64,417	45.0%	270,252	50.1%	-5.087	-0.102
Male	78,783	55.0%	269,486	49.9%	5.087	0.102
Race ²						
American Indian or Alaska Native	452	0.3%	1,516	0.3%	0.035	0.006
Asian	3,572	2.5%	6,830	1.3%	1.229	0.091
Black or African American	6,381	4.5%	27,645	5.1%	-0.666	-0.031
Native Hawaiian or Other Pacific Islander	192	0.1%	611	0.1%	0.021	0.006
Unknown	27,429	19.2%	91,160	16.9%	2.265	0.059
White	105,174	73.4%	411,976	76.3%	-2.883	-0.067
Hispanic Origin	2,990	2.1%	6,519	1.2%	0.880	0.069
Year						
2010	1,660	1.2%	0	0.0%	1.159	0.153
2011	34,849	24.3%	0	0.0%	24.336	0.802
2012	27,319	19.1%	0	0.0%	19.078	0.687
2013	16,658	11.6%	10,176	1.9%	9.747	0.396
2014	12,143	8.5%	35,153	6.5%	1.967	0.075
2015	9,745	6.8%	62,760	11.6%	-4.823	-0.167
2016	13,389	9.3%	86,131	16.0%	-6.608	-0.200
2017	12,354	8.6%	90,595	16.8%	-8.158	-0.247
2018	9,700	6.8%	123,009	22.8%	-16.017	-0.463
2019	5,359	3.7%	129,748	24.0%	-20.297	-0.614
2020	24	0.0%	2,166	0.4%	-0.385	-0.084
Recorded on Index Date:	Number	Percent	Number	Percent		
Dabigatran 75 mg	18,957	13.2%	-	0.0%	13.238	-
Dabigatran 110 mg	1,110	0.8%	-	0.0%	0.775	-
Dabigatran 150 mg	123,187	86.0%	-	0.0%	86.024	-
Apixaban 2.5 mg	-	0.0%	122,866	22.8%	-22.764	-
Apixaban 5 mg	-	0.0%	417,185	77.3%	-77.294	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ³	2.4	2.2	3.2	2.7	-0.776	-0.315
	Number	Percent	Number	Percent		
Autoimmune diseases	7,658	5.3%	28,992	5.4%	-0.024	-0.001
Addison's disease	1,354	0.9%	5,083	0.9%	0.004	0.000
Autoimmune vasculitis	402	0.3%	2,074	0.4%	-0.104	-0.018
Celiac disease	209	0.1%	870	0.2%	-0.015	-0.004
Graves' disease	*****	*****	*****	*****	-0.007	-0.008
Hashimoto's thyroiditis	382	0.3%	2,331	0.4%	-0.165	-0.028
Inflammatory bowel disease	105	0.1%	1,186	0.2%	-0.146	-0.038
Multiple sclerosis	297	0.2%	1,477	0.3%	-0.066	-0.014
Myasthenia gravis	94	0.1%	543	0.1%	-0.035	-0.012
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Pernicious anemia	1,135	0.8%	4,025	0.7%	0.047	0.005
Psoriatic arthritis	805	0.6%	3,168	0.6%	-0.025	-0.003

Table 1k. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Type 1 diabetes	4,217	2.9%	13,211	2.4%	0.497	0.031
Hematological blood disorders	24,715	17.3%	123,046	22.8%	-5.538	-0.139
Anemia	23,726	16.6%	119,604	22.2%	-5.591	-0.142
Hemophilia	1,431	1.0%	5,152	1.0%	0.045	0.005
Leukemia	25	0.0%	345	0.1%	-0.046	-0.023
Lymphoma	76	0.1%	770	0.1%	-0.090	-0.029
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	51	0.0%	470	0.1%	-0.051	-0.021
Sickle cell disease	44	0.0%	233	0.0%	-0.012	-0.006
Von Willebrand disease	25	0.0%	101	0.0%	-0.001	-0.001
Viral infections	1,941	1.4%	7,400	1.4%	-0.016	-0.001
Hepatitis B	1,022	0.7%	4,018	0.7%	-0.031	-0.004
Hepatitis C	1,516	1.1%	6,149	1.1%	-0.081	-0.008
Human immunodeficiency virus	289	0.2%	826	0.2%	0.049	0.012
Bacterial infections: Chronic bacteremia	799	0.6%	6,002	1.1%	-0.554	-0.061
Anti-infectives	40,839	28.5%	169,855	31.5%	-2.951	-0.064
Acyclovir	2,088	1.5%	7,937	1.5%	-0.012	-0.001
Ampicillin	240	0.2%	970	0.2%	-0.012	-0.003
Cephalosporin	11,378	7.9%	52,875	9.8%	-1.851	-0.065
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	9,179	6.4%	33,498	6.2%	0.204	0.008
Clindamycin	2,708	1.9%	11,597	2.1%	-0.258	-0.018
Doxycycline	4,708	3.3%	23,526	4.4%	-1.071	-0.056
Gentamicin	29	0.0%	120	0.0%	-0.002	-0.001
Griseofulvin	23	0.0%	30	0.0%	0.011	0.010
Isoniazid	18	0.0%	59	0.0%	0.002	0.002
Ofloxacin	*****	*****	*****	*****	0.003	0.007
Penicillin	15,428	10.8%	64,344	11.9%	-1.148	-0.036
Rifampicin	64	0.0%	266	0.0%	-0.005	-0.002
Trimethoprim-sulfamethoxazole	5,811	4.1%	24,364	4.5%	-0.456	-0.023
Zidovudine	21	0.0%	27	0.0%	0.010	0.010
Nonsteroidal anti-inflammatory drugs	10,284	7.2%	32,626	6.0%	1.137	0.046
Acetylsalicylic acid	1,895	1.3%	4,090	0.8%	0.566	0.056
Diclofenac	1,555	1.1%	6,190	1.1%	-0.061	-0.006
Flurbiprofen	35	0.0%	79	0.0%	0.010	0.007
Ibuprofen	3,815	2.7%	13,448	2.5%	0.173	0.011
Indomethacin	804	0.6%	1,493	0.3%	0.285	0.044
Naproxen	2,673	1.9%	8,820	1.6%	0.232	0.018
Psychoactive drugs	5,506	3.8%	25,478	4.7%	-0.875	-0.043
Amitriptyline	1,625	1.1%	5,870	1.1%	0.047	0.005
Maprotiline	*****	*****	*****	*****	0.001	0.002
Trazodone	3,952	2.8%	19,967	3.7%	-0.940	-0.053
Cardiovascular and diuretic drugs	89,562	62.5%	337,988	62.6%	-0.077	-0.002
Acebutolol	163	0.1%	584	0.1%	0.006	0.002
Amiodarone	14,786	10.3%	65,061	12.1%	-1.729	-0.055
Atenolol	14,979	10.5%	37,819	7.0%	3.453	0.123
Captopril	398	0.3%	809	0.1%	0.128	0.028
Diltiazem	24,470	17.1%	86,266	16.0%	1.105	0.030
Furosemide	32,556	22.7%	139,715	25.9%	-3.151	-0.074
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Guanethidine	-	0.0%	-	0.0%	0.000	-

Table 1k. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Unadjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hydralazine	3,311	2.3%	20,854	3.9%	-1.552	-0.090
Hydrochlorothiazide	32,917	23.0%	117,036	21.7%	1.303	0.031
Methyldopa	81	0.1%	158	0.0%	0.027	0.013
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	47	0.0%	69	0.0%	0.020	0.013
Spirolactone	7,324	5.1%	33,865	6.3%	-1.160	-0.050
Beta-adrenergic receptor agonists	14,691	10.3%	61,609	11.4%	-1.156	-0.037
Terbutaline	14	0.0%	17	0.0%	0.007	0.008
Anticonvulsants	1,094	0.8%	3,191	0.6%	0.173	0.021
Carbamazepine	470	0.3%	1,507	0.3%	0.049	0.009
Phenytoin	559	0.4%	1,308	0.2%	0.148	0.026
Sodium valproate	81	0.1%	431	0.1%	-0.023	-0.009
Health Service Utilization Intensity in the Prior 183 Days:						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	9.5	7.7	10.6	8.4	-1.149	-0.143
Mean number of emergency room encounters	0.4	0.8	0.5	0.9	-0.052	-0.059
Mean number of inpatient hospital encounters	0.5	0.7	0.6	0.8	-0.105	-0.142
Mean number of non-acute institutional encounters	0.1	0.5	0.2	0.6	-0.094	-0.165
Mean number of other ambulatory encounters	4.5	8.1	5.8	10.7	-1.373	-0.145
Mean number of unique drug classes	7.9	3.8	8.4	4.0	-0.495	-0.127
Mean number of generics	8.4	4.3	8.9	4.4	-0.532	-0.123
Mean number of filled prescriptions	19.1	15.0	19.6	15.8	-0.518	-0.034

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

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

Table 11. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Patients (Number)	125,718	87.8%	125,718	23.3%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean age* (years)	73.2	9.6	73.3	9.6	-0.078	-0.008
Age (years)	Number	Percent	Number	Percent		
21-64	22,328	17.8%	21,573	17.2%	0.601	0.019
65-74	46,582	37.1%	47,891	38.1%	-1.041	-0.022
75-84	40,514	32.2%	39,318	31.3%	0.951	0.021
85-99	16,294	13.0%	16,936	13.5%	-0.511	-0.015
Sex						
Female)*	57,476	45.7%	57,746	45.9%	-0.215	-0.004
Male)*	68,242	54.3%	67,972	54.1%	0.215	0.004
Race ²						
American Indian or Alaska Native	342	0.3%	341	0.3%	0.001	0.000
Asian	1,843	1.5%	1,496	1.2%	0.276	0.024
Black or African American	5,487	4.4%	5,705	4.5%	-0.173	-0.008
Native Hawaiian or Other Pacific Islander	85	0.1%	124	0.1%	-0.031	-0.011
Unknown	26,033	20.7%	26,342	21.0%	-0.246	-0.011
White	91,928	73.1%	91,710	72.9%	0.173	0.006
Hispanic Origin	1,700	1.4%	1,343	1.1%	0.284	0.026
Year						
2010	1,652	1.3%	0	0.0%	1.314	0.163
2011	34,625	27.5%	0	0.0%	27.542	0.872
2012	27,040	21.5%	0	0.0%	21.508	0.740
2013	16,417	13.1%	2,674	2.1%	10.932	0.422
2014	11,395	9.1%	8,667	6.9%	2.170	0.080
2015	8,267	6.6%	15,102	12.0%	-5.437	-0.188
2016	10,600	8.4%	19,988	15.9%	-7.468	-0.230
2017	8,209	6.5%	20,738	16.5%	-9.966	-0.316
2018	4,912	3.9%	28,346	22.5%	-18.640	-0.572
2019	2,577	2.0%	29,658	23.6%	-21.541	-0.681
2020	24	0.0%	545	0.4%	-0.414	-0.087
Recorded on Index Date:	Number	Percent	Number	Percent		
Dabigatran 75 mg	18,054	14.4%	-	0.0%	14.361	-
Dabigatran 110 mg	340	0.3%	-	0.0%	0.270	-
Dabigatran 150 mg	107,371	85.4%	-	0.0%	85.406	-
Apixaban 2.5 mg	-	0.0%	21,664	17.2%	-17.232	-
Apixaban 5 mg	-	0.0%	104,116	82.8%	-82.817	-
History of Use in the Prior 183 Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Charlson/Elixhauser Combined Comorbidity Score ^{3*}	2.4	2.3	2.4	2.3	0.030	0.013
	Number	Percent	Number	Percent		
Autoimmune diseases*	7,122	5.7%	6,688	5.3%	0.345	0.015
Addison's disease	1,313	1.0%	1,115	0.9%	0.157	0.016
Autoimmune vasculitis	370	0.3%	453	0.4%	-0.066	-0.012
Celiac disease	171	0.1%	233	0.2%	-0.049	-0.012
Graves' disease	*****	*****	*****	*****	-0.008	-0.009
Hashimoto's thyroiditis	343	0.3%	580	0.5%	-0.189	-0.031
Inflammatory bowel disease	96	0.1%	230	0.2%	-0.107	-0.030
Multiple sclerosis	270	0.2%	388	0.3%	-0.094	-0.018
Myasthenia gravis	85	0.1%	121	0.1%	-0.029	-0.010
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Pernicious anemia	1,124	0.9%	870	0.7%	0.202	0.023
Psoriatic arthritis	546	0.4%	861	0.7%	-0.251	-0.034

Table 11. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Type 1 diabetes	4,130	3.3%	2,914	2.3%	0.967	0.059
Hematological blood disorders*	23,468	18.7%	22,325	17.8%	0.909	0.024
Anemia	22,553	17.9%	21,554	17.1%	0.795	0.021
Hemophilia	1,388	1.1%	902	0.7%	0.387	0.041
Leukemia	17	0.0%	88	0.1%	-0.056	-0.028
Lymphoma	42	0.0%	168	0.1%	-0.100	-0.035
Myelodysplastic syndrome	-	0.0%	-	0.0%	0.000	-
Myeloma	40	0.0%	91	0.1%	-0.041	-0.018
Sickle cell disease	37	0.0%	39	0.0%	-0.002	-0.001
Von Willebrand disease	21	0.0%	21	0.0%	0.000	0.000
Viral infections*	1,621	1.3%	1,548	1.2%	0.058	0.005
Hepatitis B	872	0.7%	804	0.6%	0.054	0.007
Hepatitis C	1,306	1.0%	1,230	1.0%	0.060	0.006
Human immunodeficiency virus	241	0.2%	227	0.2%	0.011	0.003
Bacterial infections: Chronic bacteremia*	730	0.6%	694	0.6%	0.029	0.004
Anti-infectives*	36,981	29.4%	35,544	28.3%	1.143	0.025
Acyclovir	1,739	1.4%	1,909	1.5%	-0.135	-0.011
Ampicillin	239	0.2%	169	0.1%	0.056	0.014
Cephalosporin	10,117	8.0%	10,346	8.2%	-0.182	-0.007
Chloramphenicol	-	0.0%	-	0.0%	0.000	-
Ciprofloxacin	8,687	6.9%	6,593	5.2%	1.666	0.070
Clindamycin	2,485	2.0%	2,379	1.9%	0.084	0.006
Doxycycline	4,068	3.2%	4,771	3.8%	-0.559	-0.030
Gentamicin	29	0.0%	21	0.0%	0.006	0.005
Griseofulvin	*****	*****	*****	*****	0.014	0.014
Isoniazid	*****	*****	*****	*****	0.002	0.003
Ofloxacin	*****	*****	*****	*****	0.004	-
Penicillin	14,111	11.2%	14,188	11.3%	-0.061	-0.002
Rifampicin	57	0.0%	38	0.0%	0.015	0.008
Trimethoprim-sulfamethoxazole	5,435	4.3%	4,704	3.7%	0.581	0.030
Zidovudine	*****	*****	*****	*****	0.009	0.009
Nonsteroidal anti-inflammatory drugs*	7,802	6.2%	7,332	5.8%	0.374	0.016
Acetylsalicylic acid	423	0.3%	929	0.7%	-0.402	-0.056
Diclofenac	1,522	1.2%	1,453	1.2%	0.055	0.005
Flurbiprofen	35	0.0%	18	0.0%	0.014	0.009
Ibuprofen	2,974	2.4%	2,973	2.4%	0.001	0.000
Indomethacin	762	0.6%	308	0.2%	0.361	0.056
Naproxen	2,411	1.9%	2,011	1.6%	0.318	0.024
Psychoactive drugs*	4,720	3.8%	4,460	3.5%	0.207	0.011
Amitriptyline	1,576	1.3%	1,137	0.9%	0.349	0.034
Maprotiline	*****	*****	*****	*****	0.000	0.000
Trazodone	3,211	2.6%	3,379	2.7%	-0.134	-0.008
Cardiovascular and diuretic drugs*	79,170	63.0%	78,836	62.7%	0.266	0.006
Acebutolol	162	0.1%	149	0.1%	0.010	0.003
Amiodarone	13,825	11.0%	13,888	11.0%	-0.050	-0.002
Atenolol	11,516	9.2%	9,512	7.6%	1.594	0.058
Captopril	393	0.3%	165	0.1%	0.181	0.039
Diltiazem	21,780	17.3%	21,299	16.9%	0.383	0.010
Furosemide	29,704	23.6%	27,469	21.8%	1.778	0.043
History of Use in the Prior 183 Days:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Guanethidine	-	0.0%	-	0.0%	0.000	-

Table 11. Cohort of New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020 (Adjusted, Aggregated), Fixed Ratio 1:1, Caliper: 0.05

Characteristic ¹	Medical Product				Covariate Balance	
	Dabigatran		Apixaban		Absolute Difference	Standardized Difference
	Number	Percent	Number	Percent		
Hydralazine	2,882	2.3%	3,868	3.1%	-0.784	-0.049
Hydrochlorothiazide	29,435	23.4%	29,873	23.8%	-0.348	-0.008
Methyldopa	73	0.1%	38	0.0%	0.028	0.013
Procainamide	-	0.0%	-	0.0%	0.000	-
Quinidine	45	0.0%	19	0.0%	0.021	0.013
Spirinolactone	6,872	5.5%	6,944	5.5%	-0.057	-0.003
Beta-adrenergic receptor agonists*	12,720	10.1%	12,300	9.8%	0.334	0.011
Terbutaline	14	0.0%	-	0.0%	0.011	-
Anticonvulsants*	1,024	0.8%	1,020	0.8%	0.003	0.000
Carbamazepine	435	0.3%	507	0.4%	-0.057	-0.009
Phenytoin	540	0.4%	419	0.3%	0.096	0.016
Sodium valproate	65	0.1%	113	0.1%	-0.038	-0.014
Health Service Utilization Intensity in the Prior 183						
Days:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	10.0	8.0	9.9	7.9	0.099	0.012
Mean number of emergency room encounters	0.4	0.8	0.4	0.9	-0.066	-0.078
Mean number of inpatient hospital encounters	0.5	0.7	0.4	0.7	0.031	0.045
Mean number of non-acute institutional encounters	0.1	0.5	0.1	0.5	-0.001	-0.003
Mean number of other ambulatory encounters	4.4	8.4	4.3	8.2	0.114	0.014
Mean number of unique drug classes	8.1	3.9	7.9	3.7	0.216	0.057
Mean number of generics	8.6	4.3	8.4	4.1	0.254	0.060
Mean number of filled prescriptions	20.2	15.8	18.2	14.6	2.024	0.133

¹Covariates in blue show a standardized difference greater than 0.1.

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

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759)

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

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

Table 2. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate	Difference in	Hazard Ratio	Wald P-Value
			Person Days at Risk	Person Years at Risk				Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	(95% Confidence Interval)	
Site-Adjusted Analysis											
Rivaroxaban	328,249	131,787.96	146.64	0.40	55	0.42	0.17	-0.02	0.01	0.94 (0.67, 1.31)	0.710
Warfarin	618,915	218,317.79	128.84	0.35	96	0.44	0.16				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Rivaroxaban	320,363	53,844.35	61.39	0.17	25	0.46	0.08	0.07	0.01	1.19 (0.67, 2.13)	0.556
Warfarin	320,363	53,844.35	61.39	0.17	21	0.39	0.07				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Rivaroxaban	320,363	129,368.40	147.49	0.40	53	0.41	0.17	-0.04	0.01	0.94 (0.64, 1.39)	0.765
Warfarin	320,363	114,241.24	130.25	0.36	51	0.45	0.16				

¹A total of 14 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

Table 3. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate	Risk per 1,000 New Users	Incidence Rate	Difference in Risk per 1,000 New Users	Hazard Ratio	Wald P-Value
			Person Days at Risk	Person Years at Risk		per 1,000 Person Years		Difference per 1,000 Person Years		(95% Confidence Interval)	
Site-Adjusted Analysis											
Dabigatran	142,328	50,702.13	130.11	0.36	26	0.51	0.18	0.08	0.03	1.31 (0.84, 2.03)	0.230
Warfarin	622,001	219,328.54	128.79	0.35	96	0.44	0.15				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Dabigatran	142,197	22,310.83	57.31	0.16	11	0.49	0.08	0.00	0.00	1.00 (0.43, 2.31)	1.000
Warfarin	142,197	22,310.83	57.31	0.16	11	0.49	0.08				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Dabigatran	142,197	50,658.58	130.12	0.36	26	0.51	0.18	0.06	0.02	1.17 (0.67, 2.06)	0.578
Warfarin	142,197	50,504.98	129.73	0.36	23	0.46	0.16				

¹A total of 15 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

Table 4. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Apixaban and Warfarin in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate	Risk per	Incidence Rate	Difference in	Hazard Ratio	Wald P-Value
			Person Days at Risk	Person Years at Risk		per 1,000 Person Years	1,000 New Users	Difference per 1,000 Person Years	Risk per 1,000 New Users	(95% Confidence Interval)	
Site-Adjusted Analysis											
Apixaban	532,973	204,897.17	140.42	0.38	77	0.38	0.14	-0.07	-0.01	0.83 (0.62, 1.13)	0.239
Warfarin	617,584	217,357.57	128.55	0.35	96	0.44	0.16				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Apixaban	503,885	83,731.50	60.69	0.17	37	0.44	0.07	0.01	0.00	1.03 (0.65, 1.63)	0.907
Warfarin	503,885	83,731.50	60.69	0.17	36	0.43	0.07				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Apixaban	503,885	194,941.39	141.31	0.39	75	0.38	0.15	-0.08	-0.01	0.85 (0.62, 1.16)	0.298
Warfarin	503,885	177,955.42	128.99	0.35	82	0.46	0.16				

¹A total of 14 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

Table 5. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
			Person Days at Risk	Person Years at Risk				Difference per 1,000 Person Years			
Site-Adjusted Analysis											
Rivaroxaban	331,948	132,975.06	146.32	0.40	55	0.41	0.17	-0.11	-0.02	0.72 (0.44, 1.16)	0.175
Dabigatran	144,532	51,404.81	129.91	0.36	27	0.53	0.19				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Rivaroxaban	125,338	19,822.00	57.76	0.16	*****	*****	*****	0.20	0.03	1.57 (0.61, 4.05)	0.350
Dabigatran	125,338	19,822.00	57.76	0.16	*****	*****	*****				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Rivaroxaban	125,338	50,681.37	147.69	0.40	25	0.49	0.2	-0.07	0.01	0.86 (0.49, 1.50)	0.586
Dabigatran	125,338	42,504.44	123.86	0.34	24	0.56	0.19				

¹A total of 14 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

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

Table 6. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
			Person Days at Risk	Person Years at Risk				Difference per 1,000 Person Years			
Site-Adjusted Analysis											
Rivaroxaban	333,441	133,609.72	146.36	0.40	55	0.41	0.16	0.03	0.02	1.10 (0.78, 1.56)	0.573
Apixaban	536,262	206,226.30	140.46	0.38	79	0.38	0.15				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Rivaroxaban	331,796	57,435.82	63.23	0.17	27	0.47	0.08	0.07	0.01	1.17 (0.67, 2.05)	0.572
Apixaban	331,796	57,435.82	63.23	0.17	23	0.40	0.07				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Rivaroxaban	331,796	133,095.06	146.51	0.40	55	0.41	0.17	-0.01	0.00	0.99 (0.68, 1.45)	0.977
Apixaban	331,796	129,019.95	142.03	0.39	54	0.42	0.16				

¹A total of 14 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

Table 7. Effect Estimates for Risk of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD) between October 19, 2010 and February 29, 2020, by Analysis Type¹

Medical Product	Number of New Users	Person Years at Risk	Average	Average	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
			Person Days at Risk	Person Years at Risk				Difference per 1,000 Person Years			
Site-Adjusted Analysis											
Dabigatran	143,200	50,827.07	129.64	0.35	27	0.53	0.19	0.16	0.05	1.59 (1.01, 2.51)	0.047
Apixaban	539,738	207,239.85	140.24	0.38	77	0.37	0.14				
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05²											
Dabigatran	125,718	19,782.67	57.47	0.16	*****	*****	*****	0.35	0.06	2.40 (0.85, 6.81)	0.100
Apixaban	125,718	19,782.67	57.47	0.16	*****	*****	*****				
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05											
Dabigatran	125,718	42,677.00	123.99	0.34	24	0.56	0.19	0.24	0.06	1.70 (0.90, 3.21)	0.099
Apixaban	125,718	49,053.92	142.52	0.39	16	0.33	0.13				

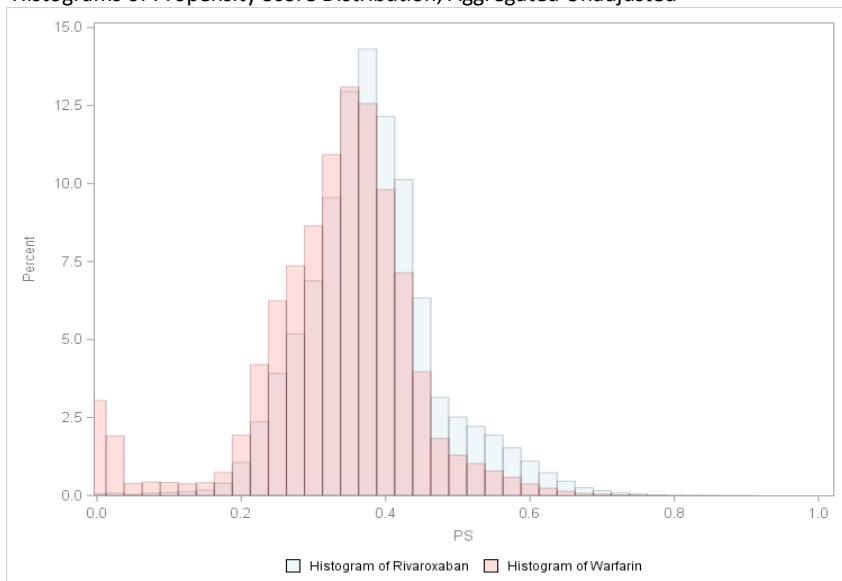
¹A total of 14 participating Data Partners converged to this propensity score analysis (PSA).

²Conditional analysis accounts for informative events and person-time.

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

Figure 1. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Warfarin

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

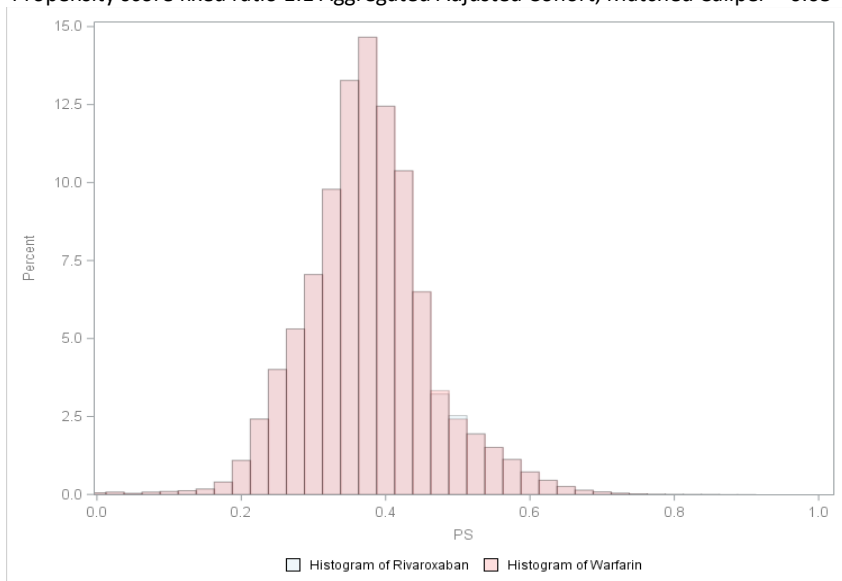
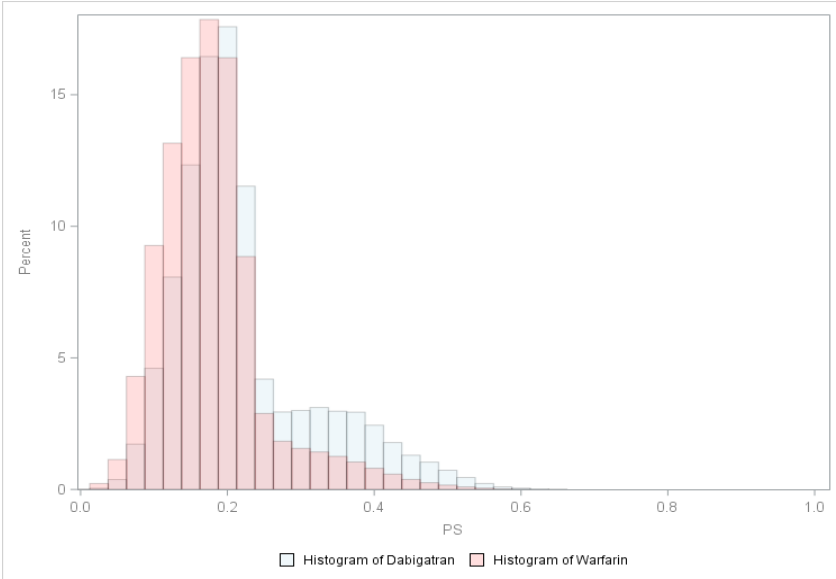


Figure 2. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Dabigatran and Warfarin

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

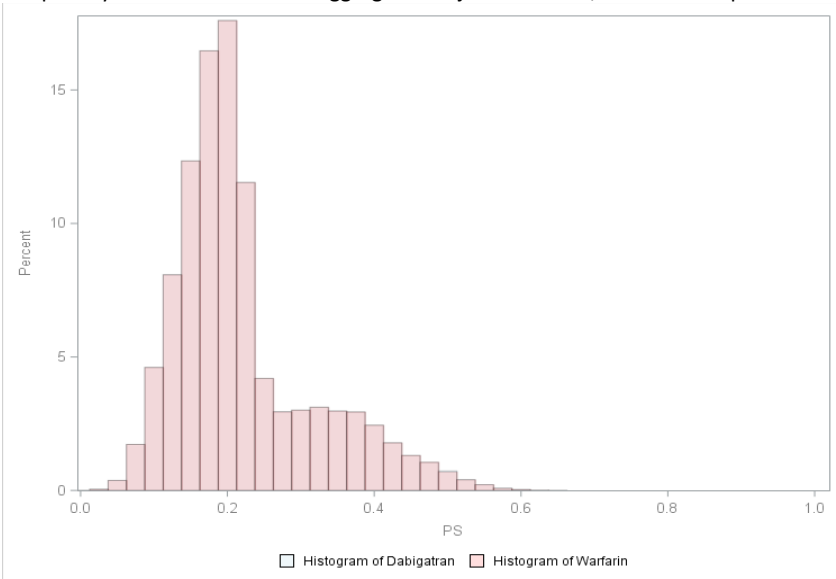
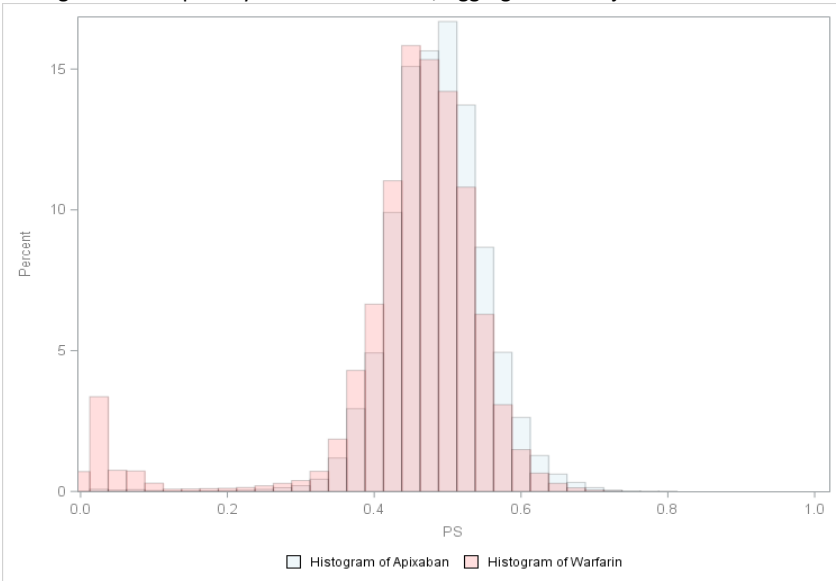


Figure 3. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Apixaban and Warfarin

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

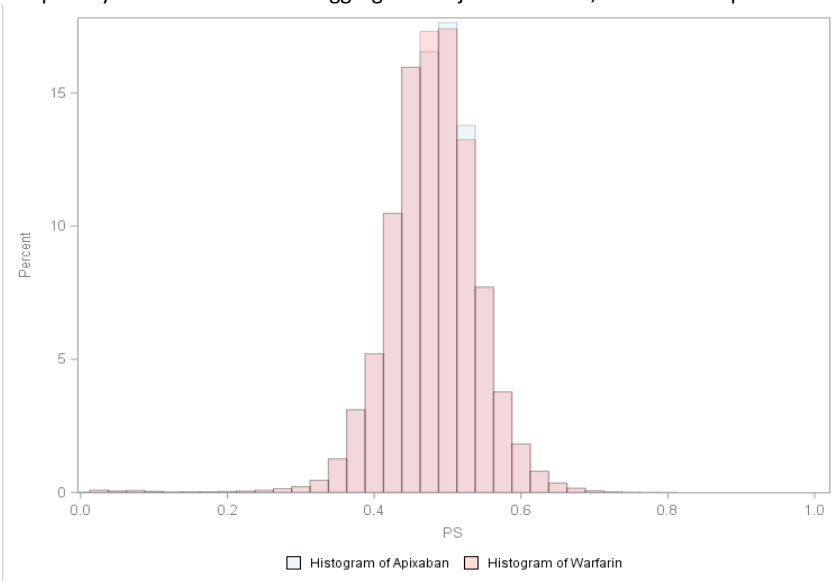
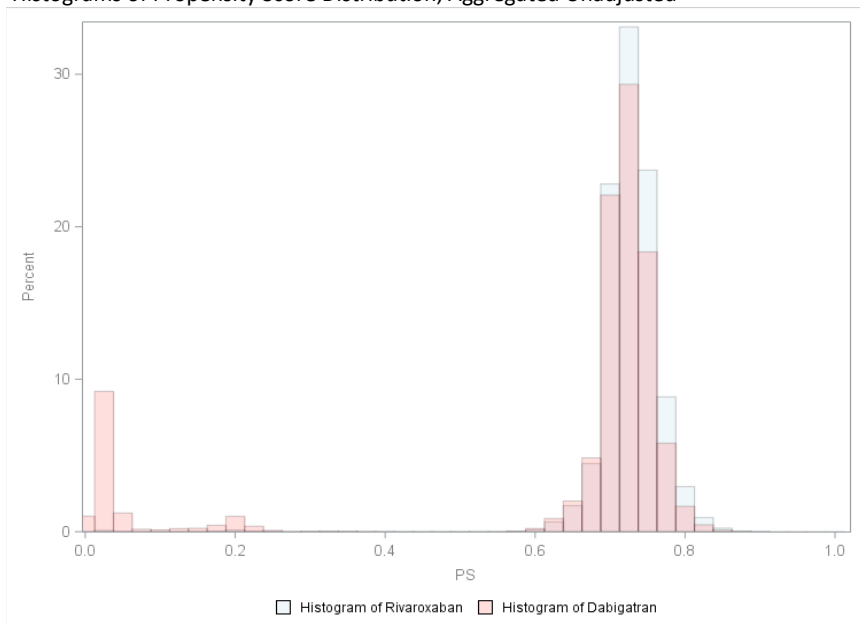


Figure 4. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Dabigatran

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

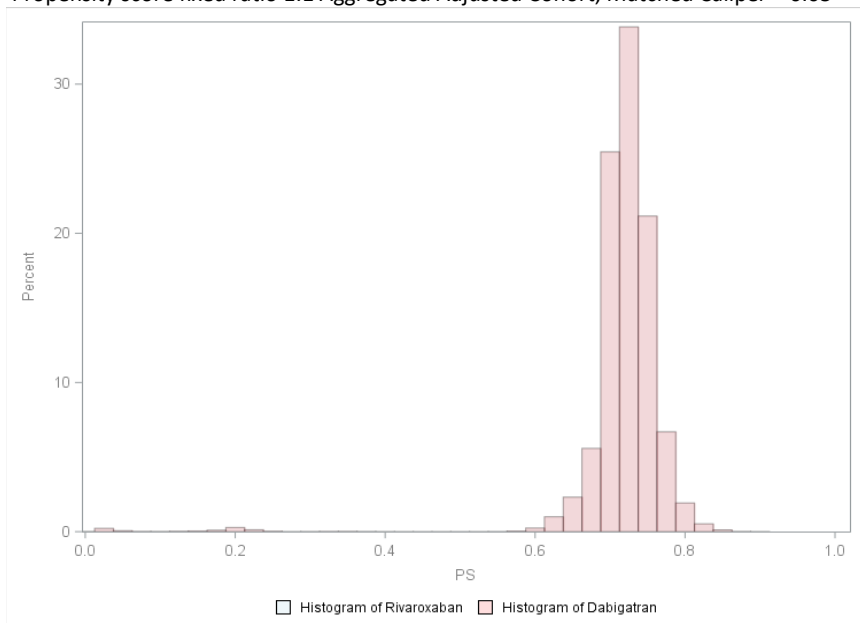
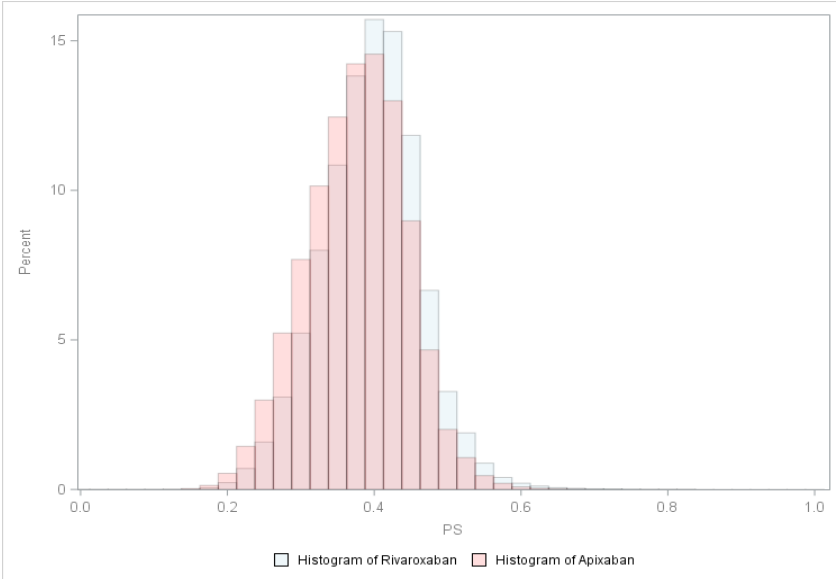


Figure 5. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Apixaban

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

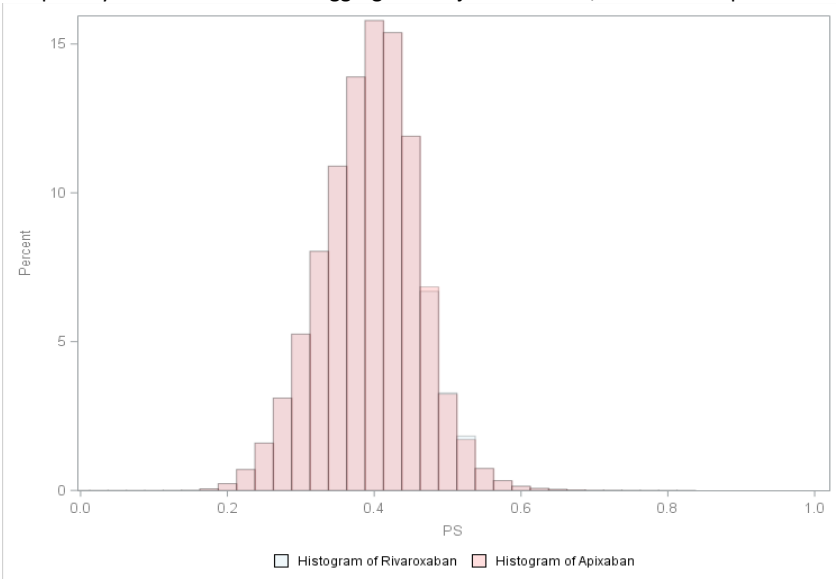
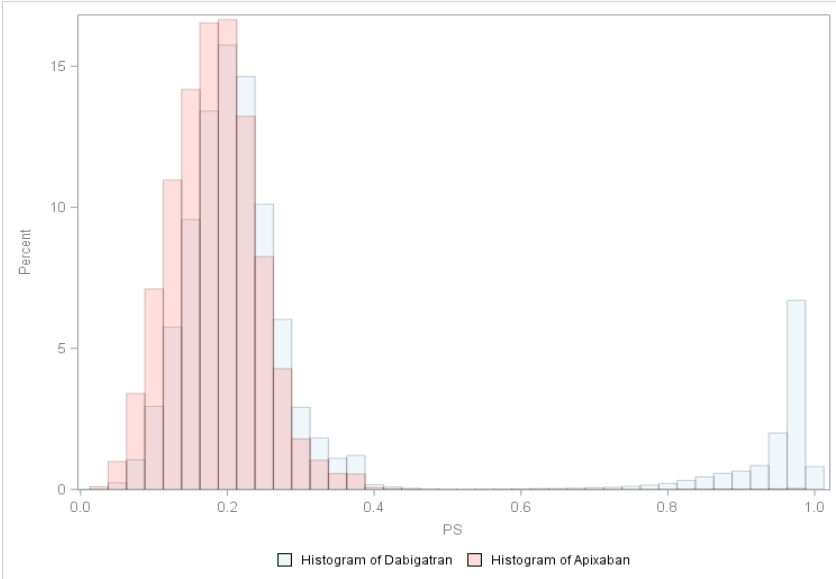


Figure 6. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Dabigatran and Apixaban

Histograms of Propensity Score Distribution, Aggregated Unadjusted



Propensity score fixed ratio 1:1 Aggregated Adjusted Cohort, Matched Caliper = 0.05

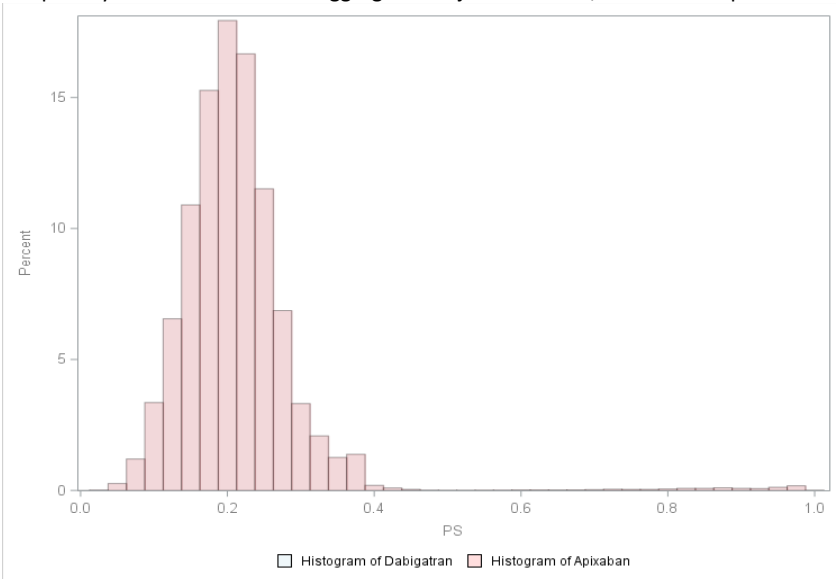
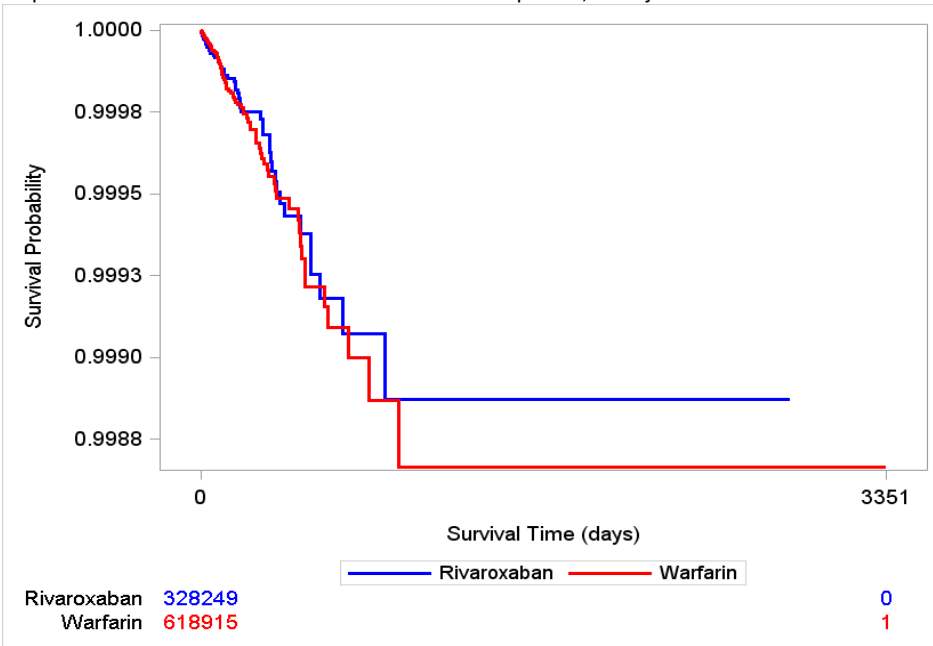


Figure 7. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort



Figure 7. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort

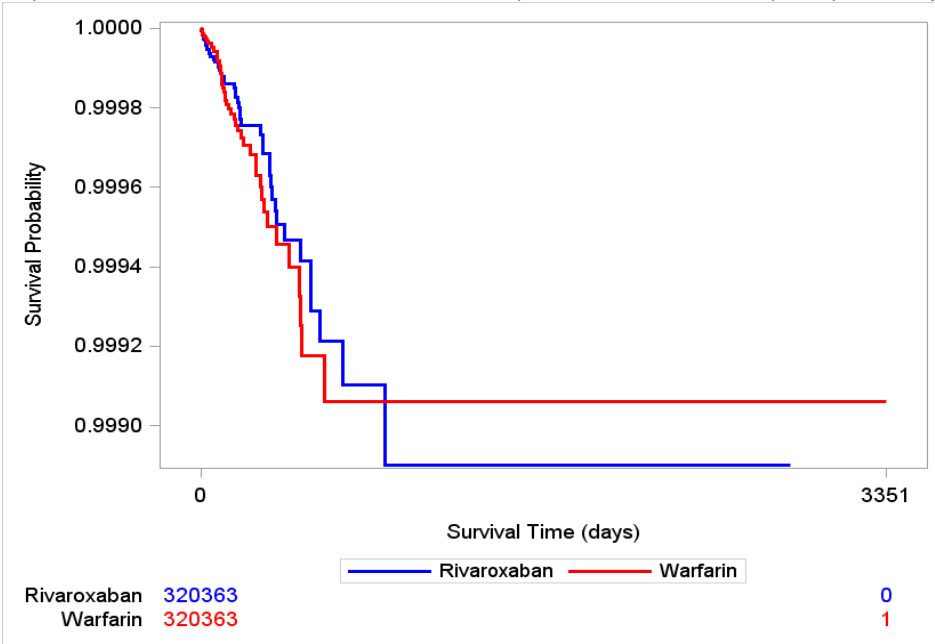
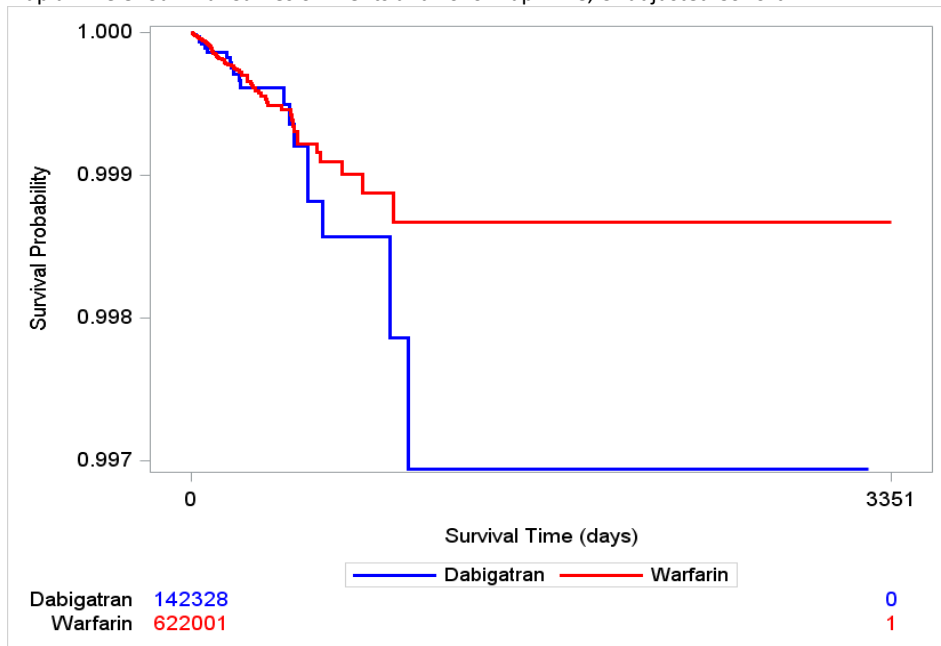


Figure 8. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort

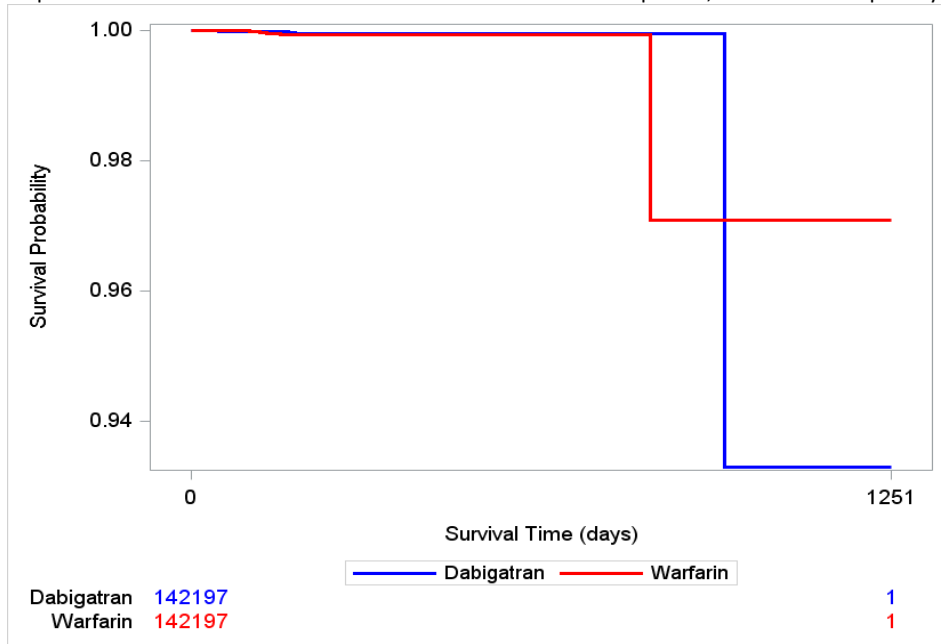


Figure 8. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort

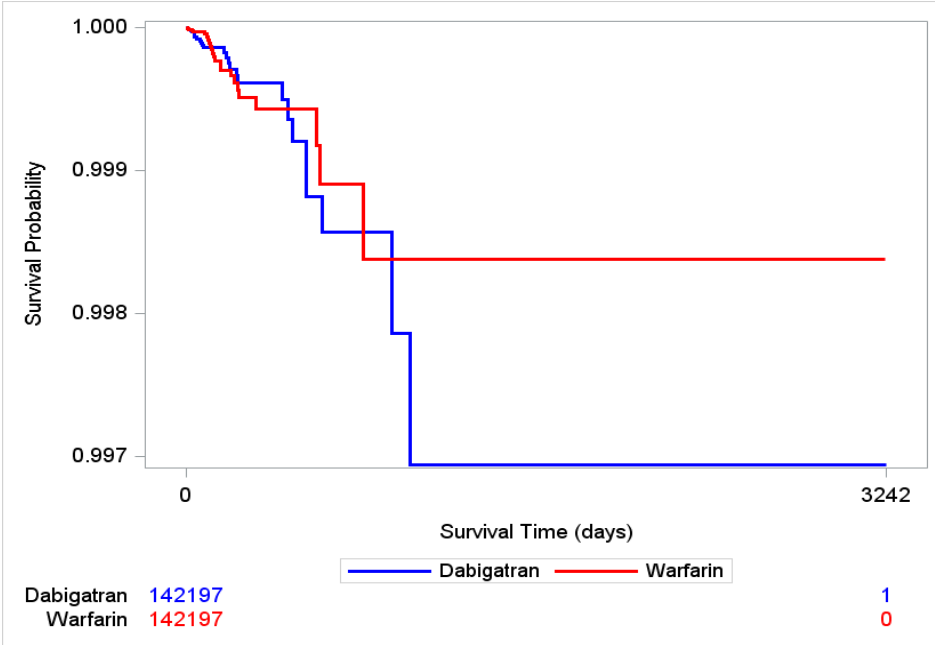
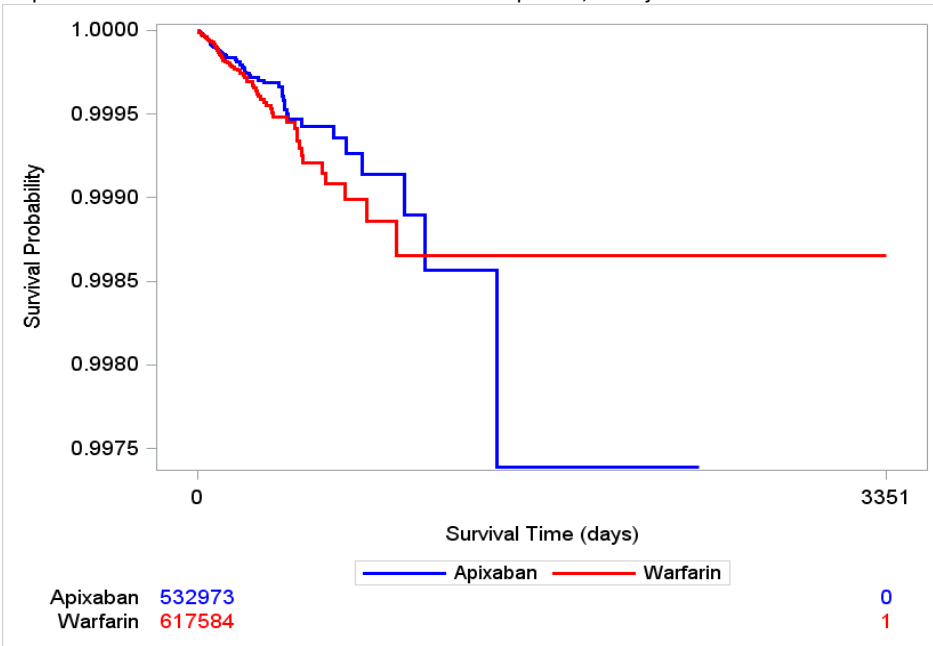


Figure 9. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Apixaban and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort

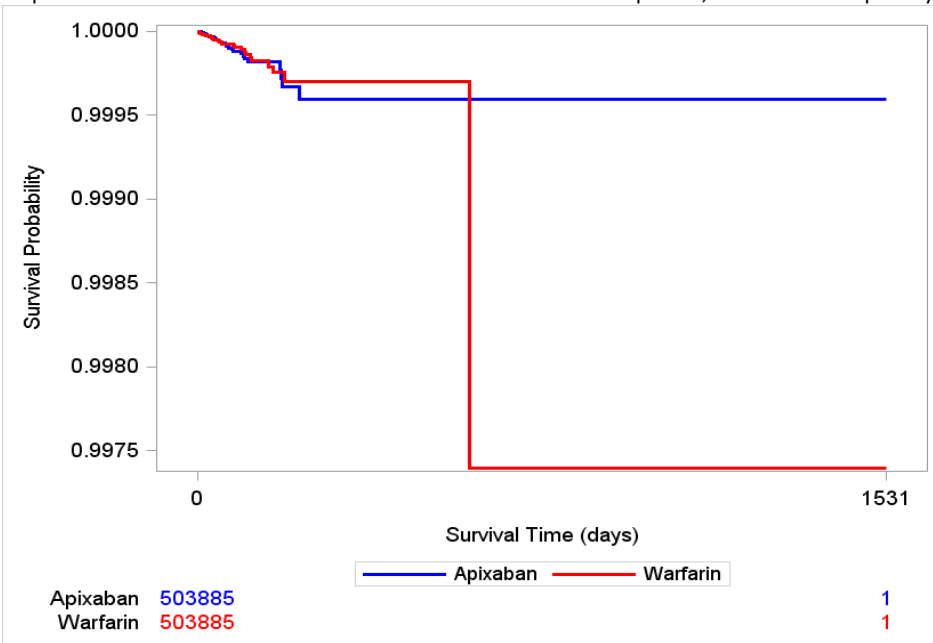


Figure 9. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Apixaban and Warfarin

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort

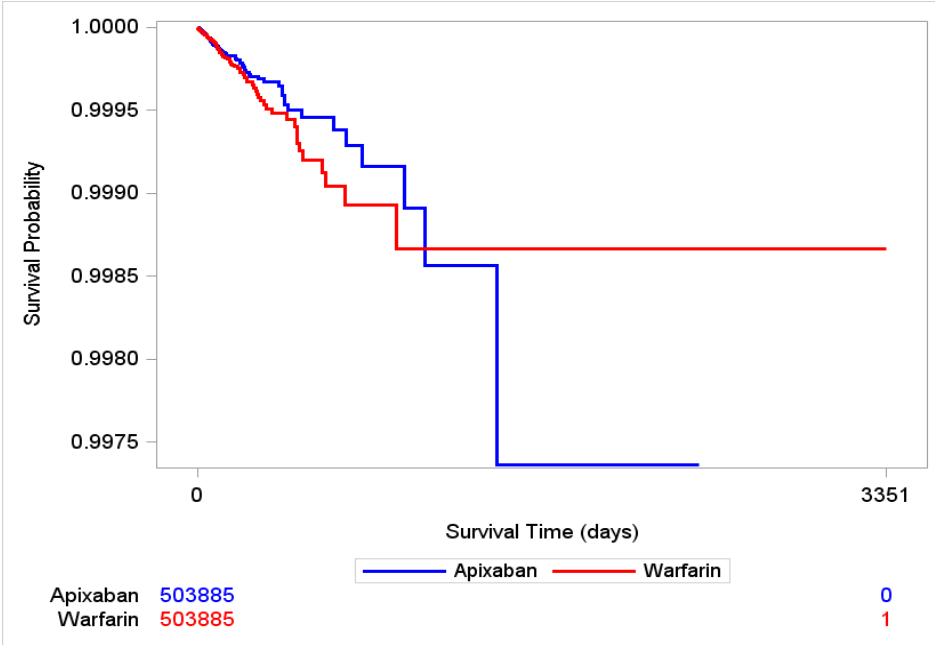
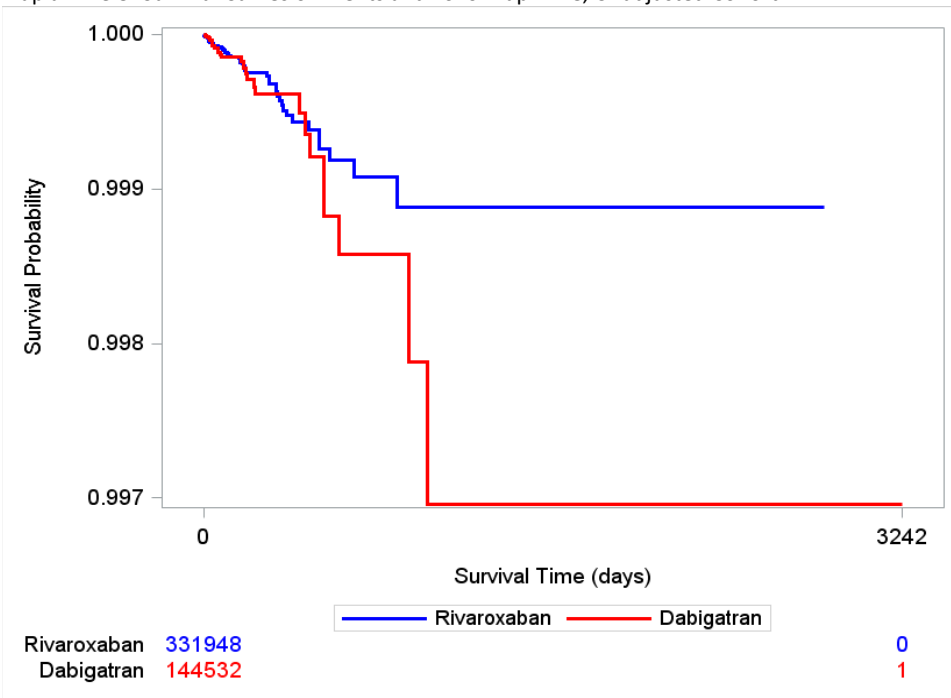


Figure 10. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Dabigatran

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort

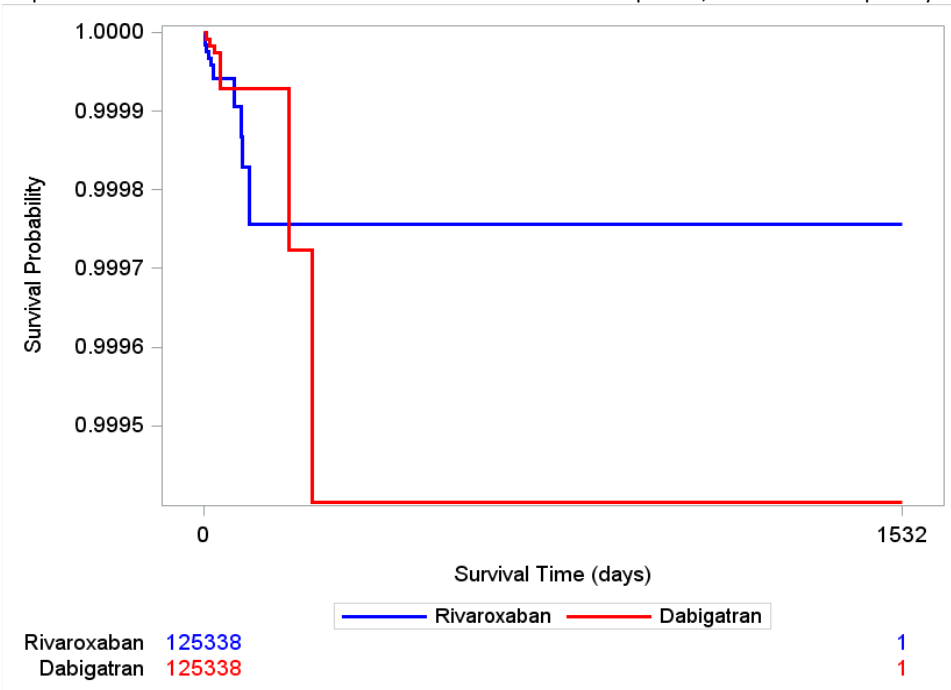


Figure 10. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Dabigatran

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort

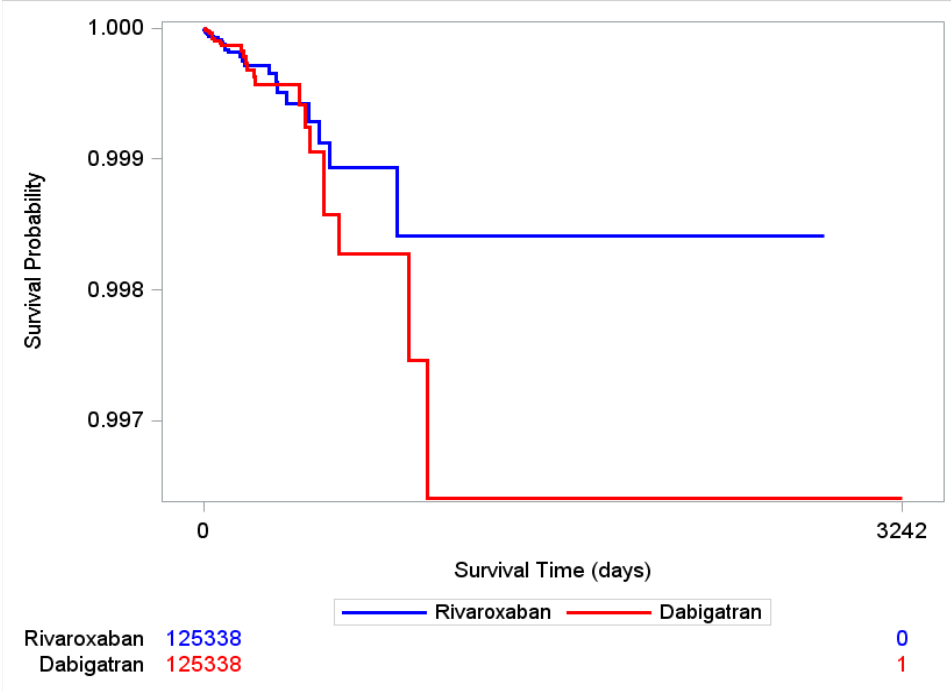
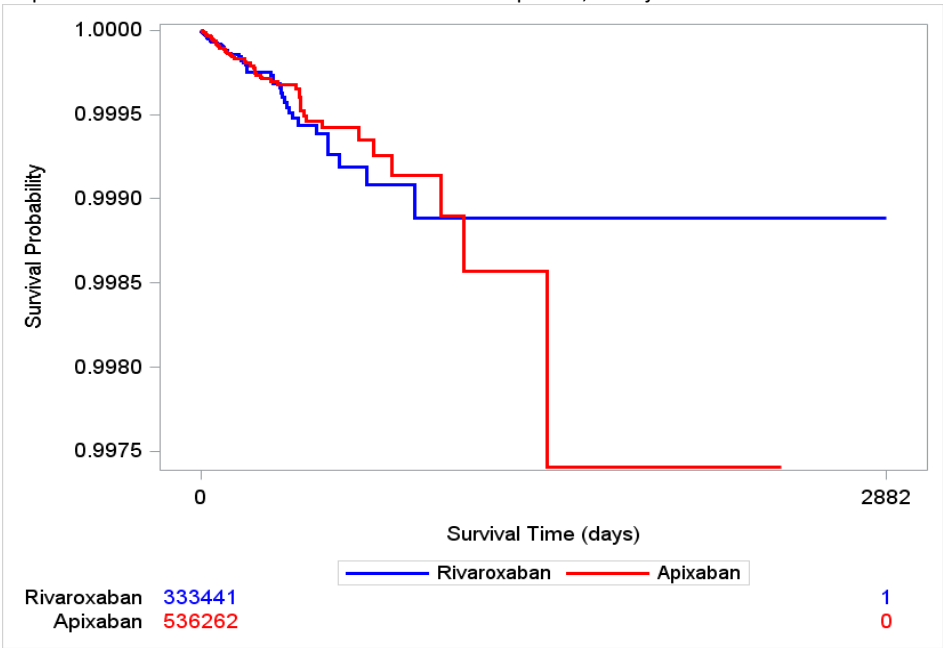


Figure 11. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Apixaban

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort

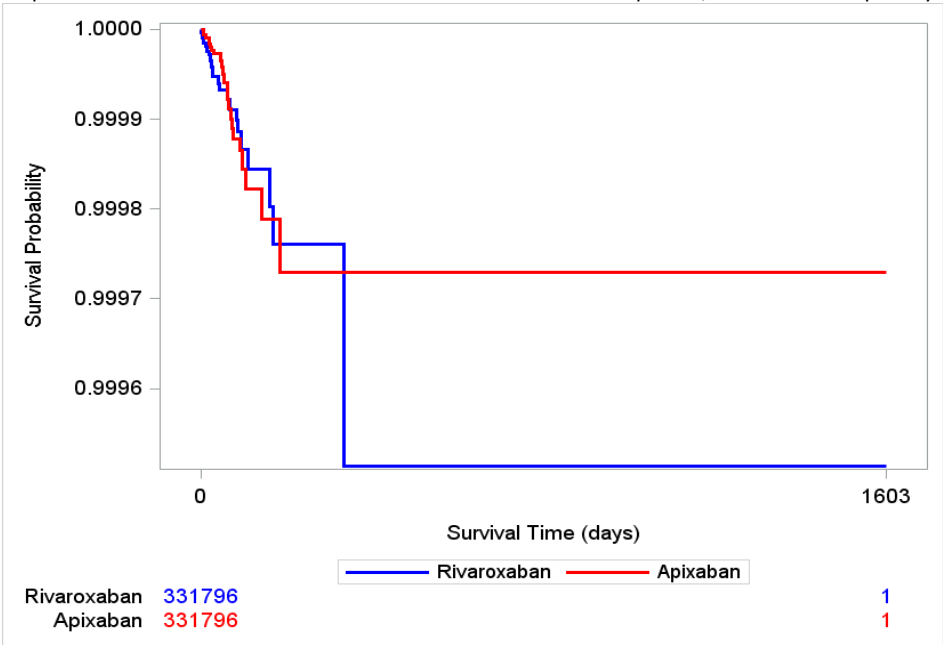


Figure 11. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Rivaroxaban and Apixaban

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort

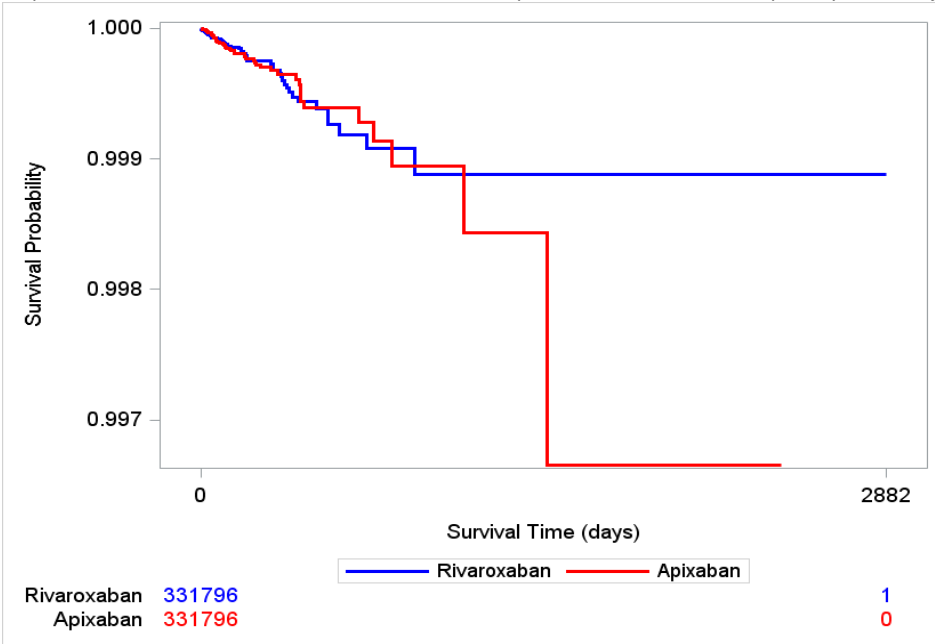
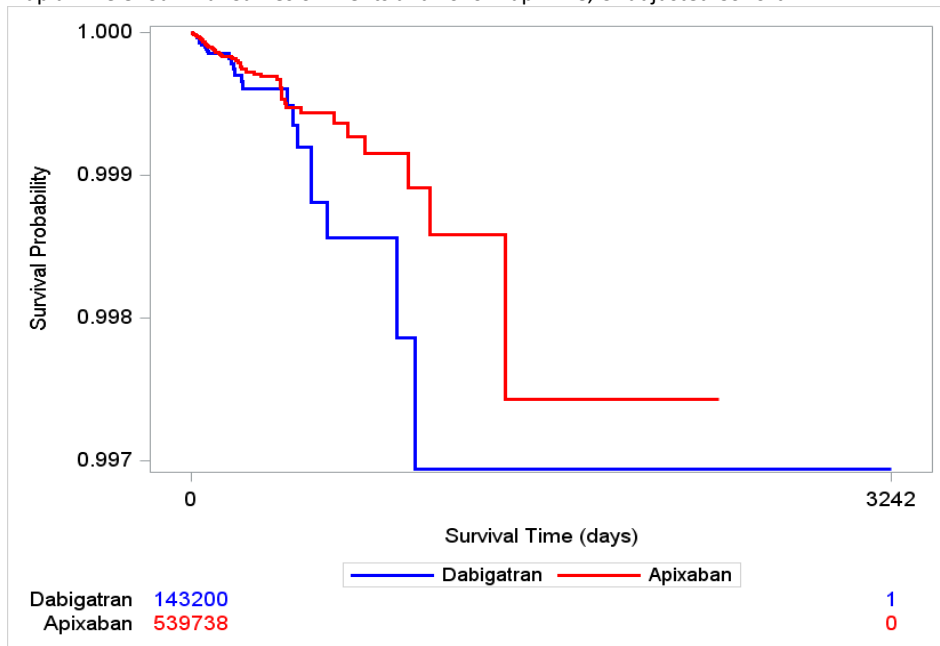


Figure 12. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Apixaban

Kaplan Meier Survival Curves of Events and Follow-up Time, Unadjusted Cohort



Kaplan Meier Survival Curves of Informative Events and Follow-up Time, Conditional Propensity Score Adjusted Matched Cohort

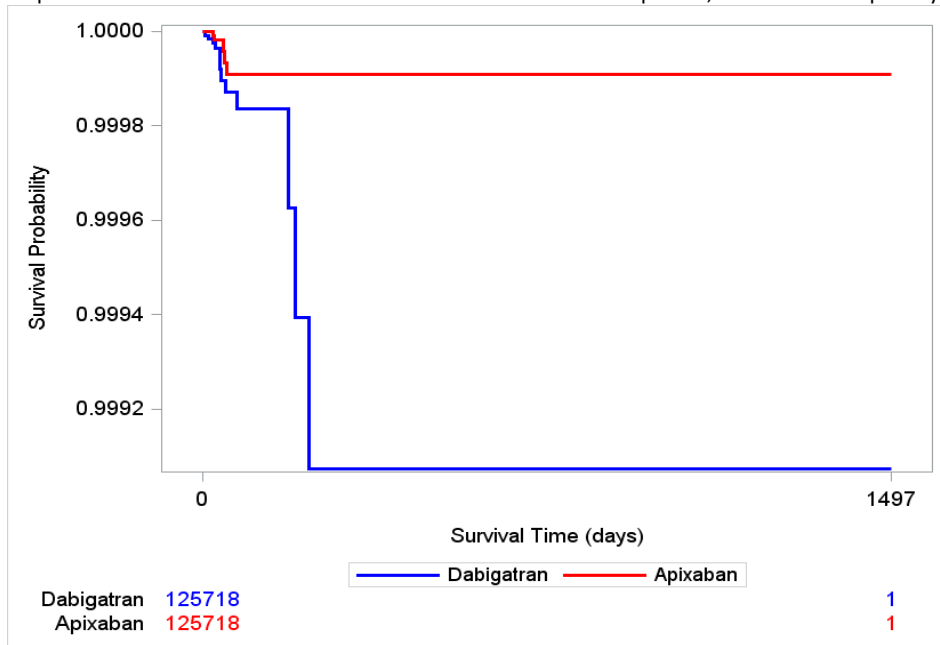
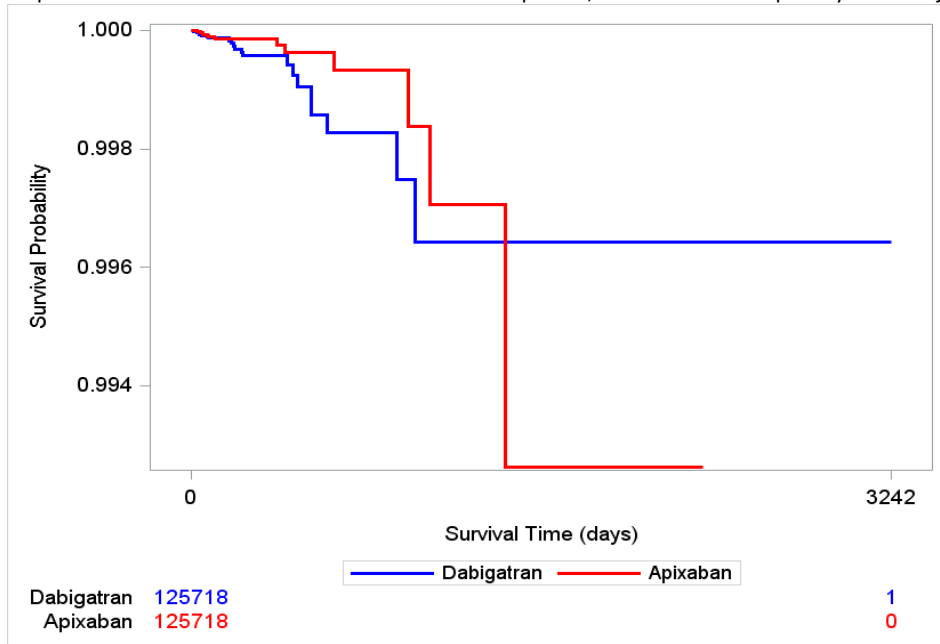


Figure 12. Kaplan Meier Survival Curves for Occurrence of Cutaneous Small-Vessel Vasculitis (CSVV) among New Initiators of Dabigatran and Apixaban

Kaplan Meier Survival Curves of Events and Follow-up Time, Unconditional Propensity Score Adjusted Matched Cohort



Appendix A. Dates of Available Data for Each Data Partner (DP) up to Request End Date (February 29, 2020) as of Query Distribution Date

Masked Data Partner ID	Data Partner Start Date	Data Partner End Date ¹
DP01	01/01/2005	07/31/2018
DP02	01/01/2000	02/28/2019
DP03	01/01/2000	04/30/2019
DP04	01/01/2006	01/31/2020
DP05	01/01/2000	01/31/2019
DP06	01/01/2004	08/31/2019
DP07	01/01/2000	12/31/2017
DP08	01/01/2000	06/30/2019
DP09	01/01/2000	07/31/2019
DP10	06/01/2007	10/31/2019
DP11	01/01/2000	04/30/2018
DP12	01/01/2008	09/30/2019
DP13	01/01/2000	03/31/2019
DP14	01/01/2012	06/30/2018
DP15	01/01/2008	02/29/2020
DP16	01/01/2010	12/31/2019

¹The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.

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

Generic Name	Brand Name
Rivaroxaban	
rivaroxaban	Xarelto
Dabigatran	
dabigatran etexilate mesylate	Pradaxa
Apixaban	
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
Warfarin	
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	Warfarin

Appendix C. List of Generic and Brand Names of Medical Products Used to Define Exposure Incidence Criteria in this Request

Generic Name	Brand Name
Rivaroxaban	
rivaroxaban	Xarelto
Dabigatran	
dabigatran etexilate mesylate	Pradaxa
Apixaban	
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
Edoxaban	
edoxaban tosylate	Savaysa
Warfarin	
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	Warfarin

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
Atrial Fibrillation			
427.31	Atrial fibrillation	Diagnosis	ICD-9-CM
427.32	Atrial flutter	Diagnosis	ICD-9-CM
427.3	Atrial fibrillation and flutter	Diagnosis	ICD-9-CM
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.3	Typical atrial flutter	Diagnosis	ICD-10-CM
I48.4	Atypical atrial flutter	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
I48.92	Unspecified atrial flutter	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
Cutaneous Small-Vessel Vasculitis			
287.0	Allergic purpura	Diagnosis	ICD-9-CM
446.2	Hypersensitivity angitis	Diagnosis	ICD-9-CM
446.20	Unspecified hypersensitivity angitis	Diagnosis	ICD-9-CM
446.29	Other specified hypersensitivity angitis	Diagnosis	ICD-9-CM
709.1	Vascular disorder of skin	Diagnosis	ICD-9-CM
D69.0	Allergic purpura	Diagnosis	ICD-10-CM
L95.0	Livedoid vasculitis	Diagnosis	ICD-10-CM
L95.8	Other vasculitis limited to the skin	Diagnosis	ICD-10-CM
L95.9	Vasculitis limited to the skin, unspecified	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angitis	Diagnosis	ICD-10-CM
Select Autoimmune Disorders			
273.2	Other paraproteinemias	Diagnosis	ICD-9-CM
373.34	Discoid lupus erythematosus of eyelid	Diagnosis	ICD-9-CM
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
695.4	Lupus erythematosus	Diagnosis	ICD-9-CM
710.0	Systemic lupus erythematosus	Diagnosis	ICD-9-CM
710.2	Sicca syndrome	Diagnosis	ICD-9-CM
710.3	Dermatomyositis	Diagnosis	ICD-9-CM
710.4	Polymyositis	Diagnosis	ICD-9-CM
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Diagnosis	ICD-9-CM
714.0	Rheumatoid arthritis	Diagnosis	ICD-9-CM
714.2	Other rheumatoid arthritis with visceral or systemic involvement	Diagnosis	ICD-9-CM
714.30	Polyarticular juvenile rheumatoid arthritis, chronic or unspecified	Diagnosis	ICD-9-CM
714.31	Polyarticular juvenile rheumatoid arthritis, acute	Diagnosis	ICD-9-CM
714.32	Pauciarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
714.33	Monoarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
V82.1	Screening for rheumatoid arthritis	Diagnosis	ICD-9-CM
D89.1	Cryoglobulinemia	Diagnosis	ICD-10-CM
H01.121	Discoid lupus erythematosus of right upper eyelid	Diagnosis	ICD-10-CM
H01.122	Discoid lupus erythematosus of right lower eyelid	Diagnosis	ICD-10-CM
H01.123	Discoid lupus erythematosus of right eye, unspecified eyelid	Diagnosis	ICD-10-CM
H01.124	Discoid lupus erythematosus of left upper eyelid	Diagnosis	ICD-10-CM
H01.125	Discoid lupus erythematosus of left lower eyelid	Diagnosis	ICD-10-CM
H01.126	Discoid lupus erythematosus of left eye, unspecified eyelid	Diagnosis	ICD-10-CM
H01.129	Discoid lupus erythematosus of unspecified eye, unspecified eyelid	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
L93.0	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
L93.1	Subacute cutaneous lupus erythematosus	Diagnosis	ICD-10-CM
L93.2	Other local lupus erythematosus	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M32.0	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified	Diagnosis	ICD-10-CM
M32.11	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.12	Pericarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.13	Lung involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.19	Other organ or system involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.8	Other forms of systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.9	Systemic lupus erythematosus, unspecified	Diagnosis	ICD-10-CM
M33.00	Juvenile dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.01	Juvenile dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.02	Juvenile dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M33.03	Juvenile dermatomyositis without myopathy	Diagnosis	ICD-10-CM
M33.09	Juvenile dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.10	Other dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.11	Other dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.12	Other dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M33.13	Other dermatomyositis without myopathy	Diagnosis	ICD-10-CM
M33.19	Other dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.20	Polymyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.21	Polymyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.22	Polymyositis with myopathy	Diagnosis	ICD-10-CM
M33.29	Polymyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.90	Dermatopolymyositis, unspecified, organ involvement unspecified	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M33.91	Dermatopolymyositis, unspecified with respiratory involvement	Diagnosis	ICD-10-CM
M33.92	Dermatopolymyositis, unspecified with myopathy	Diagnosis	ICD-10-CM
M33.93	Dermatopolymyositis, unspecified without myopathy	Diagnosis	ICD-10-CM
M33.99	Dermatopolymyositis, unspecified with other organ involvement	Diagnosis	ICD-10-CM
M35.00	Sicca syndrome, unspecified	Diagnosis	ICD-10-CM
M35.01	Sicca syndrome with keratoconjunctivitis	Diagnosis	ICD-10-CM
M35.02	Sicca syndrome with lung involvement	Diagnosis	ICD-10-CM
M35.03	Sicca syndrome with myopathy	Diagnosis	ICD-10-CM
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.09	Sicca syndrome with other organ involvement	Diagnosis	ICD-10-CM
M36.0	Dermato(poly)myositis in neoplastic disease	Diagnosis	ICD-10-CM
Z13.828	Encounter for screening for other musculoskeletal disorder	Diagnosis	ICD-10-CM

Administration of Treatment for Select Autoimmune Disorders

90281	Immune globulin (Ig), human, for intramuscular use	Procedure	CPT-4
90283	Immune globulin (IgIV), human, for intravenous use	Procedure	CPT-4
90284	Immune globulin (SCIg), human, for use in subcutaneous infusions, 100 mg, each	Procedure	CPT-4
90399	Unlisted immune globulin	Procedure	CPT-4
C9270	Injection, immune globulin (Gammaplex), intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J0850	Injection, cytomegalovirus immune globulin intravenous (human), per vial	Procedure	HCPCS
J1459	Injection, immune globulin (Privigen), intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1460	Injection, gamma globulin, intramuscular, 1 cc	Procedure	HCPCS
J1470	Injection, gamma globulin, intramuscular, 2 cc	Procedure	HCPCS
J1480	Injection, gamma globulin, intramuscular, 3 cc	Procedure	HCPCS
J1490	Injection, gamma globulin, intramuscular, 4 cc	Procedure	HCPCS
J1500	Injection, gamma globulin, intramuscular, 5 cc	Procedure	HCPCS
J1510	Injection, gamma globulin, intramuscular, 6 cc	Procedure	HCPCS
J1520	Injection, gamma globulin, intramuscular, 7 cc	Procedure	HCPCS
J1530	Injection, gamma globulin, intramuscular, 8 cc	Procedure	HCPCS
J1540	Injection, gamma globulin, intramuscular, 9 cc	Procedure	HCPCS
J1550	Injection, gamma globulin, intramuscular, 10 cc	Procedure	HCPCS
J1557	Injection, immune globulin (Gammaplex), intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1559	Injection, immune globulin (Hizentra), 100 mg	Procedure	HCPCS
J1560	Injection, gamma globulin, intramuscular, over 10 cc	Procedure	HCPCS
J1561	Injection, immune globulin (Gamunex/Gamunex-C/Gammaked), non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1562	Injection, immune globulin (Vivaglobin), 100 mg. [Code effective date: 20080101]	Procedure	HCPCS
J1563	Injection, immune globulin, intravenous, 1g	Procedure	HCPCS
J1564	Injection, immune globulin, 10 mg	Procedure	HCPCS
J1566	Injection, immune globulin, intravenous, lyophilized (e.g. powder), 500 mg	Procedure	HCPCS
J1567	Injection, immune globulin, intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1568	Injection, immune globulin (Octagam), intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1569	Injection, immune globulin (Gammagard Liquid), intravenous, non-lyophilized, (e.g. liquid), 500 mg	Procedure	HCPCS
J1572	Injection, immune globulin (Flebogamma), intravenous, non-lyophilized (e.g. liquid), 500 mg	Procedure	HCPCS
J1573	Injection, hepatitis B immune globulin (Hepagam B), intravenous, 0.5 ml	Procedure	HCPCS
J1599	Injection, immune globulin, intravenous, non-lyophilized (e.g. liquid), not otherwise specified, 500mg	Procedure	HCPCS
J2788	Injection, Rho D immune globulin, human, minidose, 50 mcg (250 i.u.)	Procedure	HCPCS
J2790	Injection, Rho D immune globulin, human, full dose, 300 mcg (1500 i.u.)	Procedure	HCPCS
J2792	Injection, Rho D immune globulin, intravenous, human, solvent detergent, 100 IU	Procedure	HCPCS
P9014	Globulin, gamma, 1 mL	Procedure	HCPCS
S9545	Administration of immune globulin, intravenously, in the home setting, including all nursing care, equipment, and supplies; per diem	Procedure	HCPCS
99.14	Injection or infusion of immunoglobulin	Procedure	ICD-9-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
30230S1	Transfusion of Nonautologous Globulin into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
30233S1	Transfusion of Nonautologous Globulin into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30240S1	Transfusion of Nonautologous Globulin into Central Vein, Open Approach	Procedure	ICD-10-PCS
30243S1	Transfusion of Nonautologous Globulin into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
30250S1	Transfusion of Nonautologous Globulin into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
30253S1	Transfusion of Nonautologous Globulin into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
30260S1	Transfusion of Nonautologous Globulin into Central Artery, Open Approach	Procedure	ICD-10-PCS
30263S1	Transfusion of Nonautologous Globulin into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
Cancer			
173.12	Squamous cell carcinoma of eyelid, including canthus	Diagnosis	ICD-9-CM
173.22	Squamous cell carcinoma of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
173.32	Squamous cell carcinoma of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
173.42	Squamous cell carcinoma of scalp and skin of neck	Diagnosis	ICD-9-CM
173.52	Squamous cell carcinoma of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
173.62	Squamous cell carcinoma of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
173.72	Squamous cell carcinoma of skin of lower limb, including hip	Diagnosis	ICD-9-CM
173.82	Squamous cell carcinoma of other specified sites of skin	Diagnosis	ICD-9-CM
173.92	Squamous cell carcinoma of skin, site unspecified	Diagnosis	ICD-9-CM
C44.121	Squamous cell carcinoma of skin of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C44.122	Squamous cell carcinoma of skin of right eyelid, including canthus	Diagnosis	ICD-10-CM
C44.129	Squamous cell carcinoma of skin of left eyelid, including canthus	Diagnosis	ICD-10-CM
C44.221	Squamous cell carcinoma of skin of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C44.222	Squamous cell carcinoma of skin of right ear and external auricular canal	Diagnosis	ICD-10-CM
C44.229	Squamous cell carcinoma of skin of left ear and external auricular canal	Diagnosis	ICD-10-CM
C44.320	Squamous cell carcinoma of skin of unspecified parts of face	Diagnosis	ICD-10-CM
C44.321	Squamous cell carcinoma of skin of nose	Diagnosis	ICD-10-CM
C44.329	Squamous cell carcinoma of skin of other parts of face	Diagnosis	ICD-10-CM
C44.42	Squamous cell carcinoma of skin of scalp and neck	Diagnosis	ICD-10-CM
C44.520	Squamous cell carcinoma of anal skin	Diagnosis	ICD-10-CM
C44.521	Squamous cell carcinoma of skin of breast	Diagnosis	ICD-10-CM
C44.529	Squamous cell carcinoma of skin of other part of trunk	Diagnosis	ICD-10-CM
C44.621	Squamous cell carcinoma of skin of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.622	Squamous cell carcinoma of skin of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.629	Squamous cell carcinoma of skin of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.721	Squamous cell carcinoma of skin of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C44.722	Squamous cell carcinoma of skin of right lower limb, including hip	Diagnosis	ICD-10-CM
C44.729	Squamous cell carcinoma of skin of left lower limb, including hip	Diagnosis	ICD-10-CM
C44.82	Squamous cell carcinoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C44.92	Squamous cell carcinoma of skin, unspecified	Diagnosis	ICD-10-CM
173.11	Basal cell carcinoma of eyelid, including canthus	Diagnosis	ICD-9-CM
173.21	Basal cell carcinoma of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
173.31	Basal cell carcinoma of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
173.41	Basal cell carcinoma of scalp and skin of neck	Diagnosis	ICD-9-CM
173.51	Basal cell carcinoma of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
173.61	Basal cell carcinoma of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
173.71	Basal cell carcinoma of skin of lower limb, including hip	Diagnosis	ICD-9-CM
173.81	Basal cell carcinoma of other specified sites of skin	Diagnosis	ICD-9-CM
173.91	Basal cell carcinoma of skin, site unspecified	Diagnosis	ICD-9-CM
C44.111	Basal cell carcinoma of skin of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C44.112	Basal cell carcinoma of skin of right eyelid, including canthus	Diagnosis	ICD-10-CM
C44.119	Basal cell carcinoma of skin of left eyelid, including canthus	Diagnosis	ICD-10-CM
C44.211	Basal cell carcinoma of skin of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
C44.212	Basal cell carcinoma of skin of right ear and external auricular canal	Diagnosis	ICD-10-CM
C44.219	Basal cell carcinoma of skin of left ear and external auricular canal	Diagnosis	ICD-10-CM
C44.310	Basal cell carcinoma of skin of unspecified parts of face	Diagnosis	ICD-10-CM
C44.311	Basal cell carcinoma of skin of nose	Diagnosis	ICD-10-CM
C44.319	Basal cell carcinoma of skin of other parts of face	Diagnosis	ICD-10-CM
C44.41	Basal cell carcinoma of skin of scalp and neck	Diagnosis	ICD-10-CM
C44.510	Basal cell carcinoma of anal skin	Diagnosis	ICD-10-CM
C44.511	Basal cell carcinoma of skin of breast	Diagnosis	ICD-10-CM
C44.519	Basal cell carcinoma of skin of other part of trunk	Diagnosis	ICD-10-CM
C44.611	Basal cell carcinoma of skin of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.612	Basal cell carcinoma of skin of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.619	Basal cell carcinoma of skin of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.711	Basal cell carcinoma of skin of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C44.712	Basal cell carcinoma of skin of right lower limb, including hip	Diagnosis	ICD-10-CM
C44.719	Basal cell carcinoma of skin of left lower limb, including hip	Diagnosis	ICD-10-CM
C44.81	Basal cell carcinoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C44.91	Basal cell carcinoma of skin, unspecified	Diagnosis	ICD-10-CM
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
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

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Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Diagnosis	ICD-9-CM
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
173	Other and unspecified malignant neoplasm of skin	Diagnosis	ICD-9-CM
173.0	Other and unspecified malignant neoplasm of skin of lip	Diagnosis	ICD-9-CM
173.00	Unspecified malignant neoplasm of skin of lip	Diagnosis	ICD-9-CM
173.01	Basal cell carcinoma of skin of lip	Diagnosis	ICD-9-CM
173.02	Squamous cell carcinoma of skin of lip	Diagnosis	ICD-9-CM
173.09	Other specified malignant neoplasm of skin of lip	Diagnosis	ICD-9-CM
173.1	Other and unspecified malignant neoplasm of eyelid, including canthus	Diagnosis	ICD-9-CM
173.10	Unspecified malignant neoplasm of eyelid, including canthus	Diagnosis	ICD-9-CM
173.19	Other specified malignant neoplasm of eyelid, including canthus	Diagnosis	ICD-9-CM
173.2	Other and unspecified malignant neoplasm of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
173.20	Unspecified malignant neoplasm of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
173.29	Other specified malignant neoplasm of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
173.3	Other and unspecified malignant neoplasm of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
173.30	Unspecified malignant neoplasm of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
173.39	Other specified malignant neoplasm of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
173.4	Other and unspecified malignant neoplasm of scalp and skin of neck	Diagnosis	ICD-9-CM
173.40	Unspecified malignant neoplasm of scalp and skin of neck	Diagnosis	ICD-9-CM
173.49	Other specified malignant neoplasm of scalp and skin of neck	Diagnosis	ICD-9-CM
173.5	Other and unspecified malignant neoplasm of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
173.50	Unspecified malignant neoplasm of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
173.59	Other specified malignant neoplasm of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
173.6	Other and unspecified malignant neoplasm of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
173.60	Unspecified malignant neoplasm of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
173.69	Other specified malignant neoplasm of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
173.7	Other and unspecified malignant neoplasm of skin of lower limb, including hip	Diagnosis	ICD-9-CM
173.70	Unspecified malignant neoplasm of skin of lower limb, including hip	Diagnosis	ICD-9-CM
173.79	Other specified malignant neoplasm of skin of lower limb, including hip	Diagnosis	ICD-9-CM
173.8	Other and unspecified malignant neoplasm of other specified sites of skin	Diagnosis	ICD-9-CM
173.80	Unspecified malignant neoplasm of other specified sites of skin	Diagnosis	ICD-9-CM
173.89	Other specified malignant neoplasm of other specified sites of skin	Diagnosis	ICD-9-CM
173.9	Other and unspecified malignant neoplasm of skin, site unspecified	Diagnosis	ICD-9-CM
173.90	Unspecified malignant neoplasm of skin, site unspecified	Diagnosis	ICD-9-CM
173.99	Other specified malignant neoplasm of skin, site unspecified	Diagnosis	ICD-9-CM
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
184.0	Malignant neoplasm of vagina	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
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
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
191	Malignant neoplasm of brain	Diagnosis	ICD-9-CM
191.0	Malignant neoplasm of cerebrum, except lobes and ventricles	Diagnosis	ICD-9-CM
191.1	Malignant neoplasm of frontal lobe of brain	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
191.2	Malignant neoplasm of temporal lobe of brain	Diagnosis	ICD-9-CM
191.3	Malignant neoplasm of parietal lobe of brain	Diagnosis	ICD-9-CM
191.4	Malignant neoplasm of occipital lobe of brain	Diagnosis	ICD-9-CM
191.5	Malignant neoplasm of ventricles of brain	Diagnosis	ICD-9-CM
191.6	Malignant neoplasm of cerebellum NOS	Diagnosis	ICD-9-CM
191.7	Malignant neoplasm of brain stem	Diagnosis	ICD-9-CM
191.8	Malignant neoplasm of other parts of brain	Diagnosis	ICD-9-CM
191.9	Malignant neoplasm of brain, unspecified site	Diagnosis	ICD-9-CM
192	Malignant neoplasm of other and unspecified parts of nervous system	Diagnosis	ICD-9-CM
192.0	Malignant neoplasm of cranial nerves	Diagnosis	ICD-9-CM
192.1	Malignant neoplasm of cerebral meninges	Diagnosis	ICD-9-CM
192.2	Malignant neoplasm of spinal cord	Diagnosis	ICD-9-CM
192.3	Malignant neoplasm of spinal meninges	Diagnosis	ICD-9-CM
192.8	Malignant neoplasm of other specified sites of nervous system	Diagnosis	ICD-9-CM
192.9	Malignant neoplasm of nervous system, 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
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

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Code	Description	Code Category	Code Type
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
198.3	Secondary malignant neoplasm of brain and spinal cord	Diagnosis	ICD-9-CM
198.4	Secondary malignant neoplasm of other parts of nervous system	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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
202.53	Letterer-Siwe disease of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
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
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

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Code	Description	Code Category	Code Type
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 and immunoproliferative neoplasms	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	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
203.8	Other immunoproliferative neoplasms	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	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	Chronic lymphoid leukemia	Diagnosis	ICD-9-CM
204.10	Chronic lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.11	Chronic lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.12	Chronic lymphoid leukemia, in relapse	Diagnosis	ICD-9-CM
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	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	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	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	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	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	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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
205.8	Other myeloid leukemia	Diagnosis	ICD-9-CM
205.80	Other myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.81	Other myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.82	Other myeloid leukemia, in relapse	Diagnosis	ICD-9-CM
205.9	Unspecified myeloid leukemia	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 myeloid leukemia, in relapse	Diagnosis	ICD-9-CM
206	Monocytic leukemia	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	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	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	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	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
207.02	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
207.2	Megakaryocytic leukemia	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	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	Leukemia of unspecified cell type	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 of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.02	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-9-CM
208.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
208.10	Chronic leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.11	Chronic leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.12	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-9-CM
208.2	Subacute leukemia of unspecified cell type	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 of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.22	Subacute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-9-CM
208.8	Other leukemia of unspecified cell type	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
209	Neuroendocrine tumors	Diagnosis	ICD-9-CM
209.0	Malignant carcinoid tumors of the small intestine	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
209.1	Malignant carcinoid tumors of the appendix, large intestine, and rectum	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
209.2	Malignant carcinoid tumors of other and unspecified sites	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
209.3	Malignant poorly differentiated neuroendocrine tumors	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
209.4	Benign carcinoid tumors of the small intestine	Diagnosis	ICD-9-CM
209.40	Benign carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-9-CM
209.41	Benign carcinoid tumor of the duodenum	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
209.42	Benign carcinoid tumor of the jejunum	Diagnosis	ICD-9-CM
209.43	Benign carcinoid tumor of the ileum	Diagnosis	ICD-9-CM
209.5	Benign carcinoid tumors of the appendix, large intestine, and rectum	Diagnosis	ICD-9-CM
209.50	Benign carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-9-CM
209.51	Benign carcinoid tumor of the appendix	Diagnosis	ICD-9-CM
209.52	Benign carcinoid tumor of the cecum	Diagnosis	ICD-9-CM
209.53	Benign carcinoid tumor of the ascending colon	Diagnosis	ICD-9-CM
209.54	Benign carcinoid tumor of the transverse colon	Diagnosis	ICD-9-CM
209.55	Benign carcinoid tumor of the descending colon	Diagnosis	ICD-9-CM
209.56	Benign carcinoid tumor of the sigmoid colon	Diagnosis	ICD-9-CM
209.57	Benign carcinoid tumor of the rectum	Diagnosis	ICD-9-CM
209.6	Benign carcinoid tumors of other and unspecified sites	Diagnosis	ICD-9-CM
209.60	Benign carcinoid tumor of unknown primary site	Diagnosis	ICD-9-CM
209.61	Benign carcinoid tumor of the bronchus and lung	Diagnosis	ICD-9-CM
209.62	Benign carcinoid tumor of the thymus	Diagnosis	ICD-9-CM
209.63	Benign carcinoid tumor of the stomach	Diagnosis	ICD-9-CM
209.64	Benign carcinoid tumor of the kidney	Diagnosis	ICD-9-CM
209.65	Benign carcinoid tumor of foregut, not otherwise specified	Diagnosis	ICD-9-CM
209.66	Benign carcinoid tumor of midgut, not otherwise specified	Diagnosis	ICD-9-CM
209.67	Benign carcinoid tumor of hindgut, not otherwise specified	Diagnosis	ICD-9-CM
209.69	Benign carcinoid tumor of other sites	Diagnosis	ICD-9-CM
209.7	Secondary neuroendocrine tumors	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
230	Carcinoma in situ of digestive organs	Diagnosis	ICD-9-CM
230.0	Carcinoma in situ of lip, oral cavity, and pharynx	Diagnosis	ICD-9-CM
230.1	Carcinoma in situ of esophagus	Diagnosis	ICD-9-CM
230.2	Carcinoma in situ of stomach	Diagnosis	ICD-9-CM
230.3	Carcinoma in situ of colon	Diagnosis	ICD-9-CM
230.4	Carcinoma in situ of rectum	Diagnosis	ICD-9-CM
230.5	Carcinoma in situ of anal canal	Diagnosis	ICD-9-CM
230.6	Carcinoma in situ of anus, unspecified	Diagnosis	ICD-9-CM
230.7	Carcinoma in situ of other and unspecified parts of intestine	Diagnosis	ICD-9-CM
230.8	Carcinoma in situ of liver and biliary system	Diagnosis	ICD-9-CM
230.9	Carcinoma in situ of other and unspecified digestive organs	Diagnosis	ICD-9-CM
231	Carcinoma in situ of respiratory system	Diagnosis	ICD-9-CM
231.0	Carcinoma in situ of larynx	Diagnosis	ICD-9-CM
231.1	Carcinoma in situ of trachea	Diagnosis	ICD-9-CM
231.2	Carcinoma in situ of bronchus and lung	Diagnosis	ICD-9-CM
231.8	Carcinoma in situ of other specified parts of respiratory system	Diagnosis	ICD-9-CM
231.9	Carcinoma in situ of respiratory system, part unspecified	Diagnosis	ICD-9-CM
232	Carcinoma in situ of skin	Diagnosis	ICD-9-CM
232.0	Carcinoma in situ of skin of lip	Diagnosis	ICD-9-CM
232.1	Carcinoma in situ of eyelid, including canthus	Diagnosis	ICD-9-CM
232.2	Carcinoma in situ of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
232.3	Carcinoma in situ of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
232.4	Carcinoma in situ of scalp and skin of neck	Diagnosis	ICD-9-CM
232.5	Carcinoma in situ of skin of trunk, except scrotum	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
232.6	Carcinoma in situ of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
232.7	Carcinoma in situ of skin of lower limb, including hip	Diagnosis	ICD-9-CM
232.8	Carcinoma in situ of other specified sites of skin	Diagnosis	ICD-9-CM
232.9	Carcinoma in situ of skin, site unspecified	Diagnosis	ICD-9-CM
233	Carcinoma in situ of breast and genitourinary system	Diagnosis	ICD-9-CM
233.0	Carcinoma in situ of breast	Diagnosis	ICD-9-CM
233.1	Carcinoma in situ of cervix uteri	Diagnosis	ICD-9-CM
233.2	Carcinoma in situ of other and unspecified parts of uterus	Diagnosis	ICD-9-CM
233.3	Carcinoma in situ, other and unspecified female genital organs	Diagnosis	ICD-9-CM
233.30	Carcinoma in situ, unspecified female genital organ	Diagnosis	ICD-9-CM
233.31	Carcinoma in situ, vagina	Diagnosis	ICD-9-CM
233.32	Carcinoma in situ, vulva	Diagnosis	ICD-9-CM
233.39	Carcinoma in situ, other female genital organ	Diagnosis	ICD-9-CM
233.4	Carcinoma in situ of prostate	Diagnosis	ICD-9-CM
233.5	Carcinoma in situ of penis	Diagnosis	ICD-9-CM
233.6	Carcinoma in situ of other and unspecified male genital organs	Diagnosis	ICD-9-CM
233.7	Carcinoma in situ of bladder	Diagnosis	ICD-9-CM
233.9	Carcinoma in situ of other and unspecified urinary organs	Diagnosis	ICD-9-CM
234	Carcinoma in situ of other and unspecified sites	Diagnosis	ICD-9-CM
234.0	Carcinoma in situ of eye	Diagnosis	ICD-9-CM
234.8	Carcinoma in situ of other specified sites	Diagnosis	ICD-9-CM
234.9	Carcinoma in situ, site unspecified	Diagnosis	ICD-9-CM
235	Neoplasm of uncertain behavior of digestive and respiratory systems	Diagnosis	ICD-9-CM
235.0	Neoplasm of uncertain behavior of major salivary glands	Diagnosis	ICD-9-CM
235.1	Neoplasm of uncertain behavior of lip, oral cavity, and pharynx	Diagnosis	ICD-9-CM
235.2	Neoplasm of uncertain behavior of stomach, intestines, and rectum	Diagnosis	ICD-9-CM
235.3	Neoplasm of uncertain behavior of liver and biliary passages	Diagnosis	ICD-9-CM
235.4	Neoplasm of uncertain behavior of retroperitoneum and peritoneum	Diagnosis	ICD-9-CM
235.5	Neoplasm of uncertain behavior of other and unspecified digestive organs	Diagnosis	ICD-9-CM
235.6	Neoplasm of uncertain behavior of larynx	Diagnosis	ICD-9-CM
235.7	Neoplasm of uncertain behavior of trachea, bronchus, and lung	Diagnosis	ICD-9-CM
235.8	Neoplasm of uncertain behavior of pleura, thymus, and mediastinum	Diagnosis	ICD-9-CM
235.9	Neoplasm of uncertain behavior of other and unspecified respiratory organs	Diagnosis	ICD-9-CM
236	Neoplasm of uncertain behavior of genitourinary organs	Diagnosis	ICD-9-CM
236.0	Neoplasm of uncertain behavior of uterus	Diagnosis	ICD-9-CM
236.1	Neoplasm of uncertain behavior of placenta	Diagnosis	ICD-9-CM
236.2	Neoplasm of uncertain behavior of ovary	Diagnosis	ICD-9-CM
236.3	Neoplasm of uncertain behavior of other and unspecified female genital organs	Diagnosis	ICD-9-CM
236.4	Neoplasm of uncertain behavior of testis	Diagnosis	ICD-9-CM
236.5	Neoplasm of uncertain behavior of prostate	Diagnosis	ICD-9-CM
236.6	Neoplasm of uncertain behavior of other and unspecified male genital organs	Diagnosis	ICD-9-CM
236.7	Neoplasm of uncertain behavior of bladder	Diagnosis	ICD-9-CM
236.9	Neoplasm of uncertain behavior of other and unspecified urinary organs	Diagnosis	ICD-9-CM
236.90	Neoplasm of uncertain behavior of urinary organ, unspecified	Diagnosis	ICD-9-CM
236.91	Neoplasm of uncertain behavior of kidney and ureter	Diagnosis	ICD-9-CM
236.99	Neoplasm of uncertain behavior of other and unspecified urinary organs	Diagnosis	ICD-9-CM
237	Neoplasm of uncertain behavior of endocrine glands and nervous system	Diagnosis	ICD-9-CM
237.0	Neoplasm of uncertain behavior of pituitary gland and craniopharyngeal duct	Diagnosis	ICD-9-CM
237.1	Neoplasm of uncertain behavior of pineal gland	Diagnosis	ICD-9-CM
237.2	Neoplasm of uncertain behavior of adrenal gland	Diagnosis	ICD-9-CM
237.3	Neoplasm of uncertain behavior of paraganglia	Diagnosis	ICD-9-CM
237.4	Neoplasm of uncertain behavior of other and unspecified endocrine glands	Diagnosis	ICD-9-CM
237.5	Neoplasm of uncertain behavior of brain and spinal cord	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
237.6	Neoplasm of uncertain behavior of meninges	Diagnosis	ICD-9-CM
237.7	Neurofibromatosis	Diagnosis	ICD-9-CM
237.70	Neurofibromatosis, unspecified	Diagnosis	ICD-9-CM
237.71	Neurofibromatosis, Type 1 (von Recklinghausen's disease)	Diagnosis	ICD-9-CM
237.72	Neurofibromatosis, Type 2 (acoustic neurofibromatosis)	Diagnosis	ICD-9-CM
237.73	Schwannomatosis	Diagnosis	ICD-9-CM
237.79	Other neurofibromatosis	Diagnosis	ICD-9-CM
237.9	Neoplasm of uncertain behavior of other and unspecified parts of nervous system	Diagnosis	ICD-9-CM
238	Neoplasm of uncertain behavior of other and unspecified sites and tissues	Diagnosis	ICD-9-CM
238.0	Neoplasm of uncertain behavior of bone and articular cartilage	Diagnosis	ICD-9-CM
238.1	Neoplasm of uncertain behavior of connective and other soft tissue	Diagnosis	ICD-9-CM
238.2	Neoplasm of uncertain behavior of skin	Diagnosis	ICD-9-CM
238.3	Neoplasm of uncertain behavior of breast	Diagnosis	ICD-9-CM
238.4	Neoplasm of uncertain behavior of polycythemia vera	Diagnosis	ICD-9-CM
238.5	Neoplasm of uncertain behavior of histiocytic and mast cells	Diagnosis	ICD-9-CM
238.6	Neoplasm of uncertain behavior of plasma cells	Diagnosis	ICD-9-CM
238.7	Other lymphatic and hematopoietic tissues	Diagnosis	ICD-9-CM
238.71	Essential thrombocythemia	Diagnosis	ICD-9-CM
238.72	Low grade myelodysplastic syndrome lesions	Diagnosis	ICD-9-CM
238.73	High grade myelodysplastic syndrome lesions	Diagnosis	ICD-9-CM
238.74	Myelodysplastic syndrome with 5q deletion	Diagnosis	ICD-9-CM
238.75	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-9-CM
238.76	Myelofibrosis with myeloid metaplasia	Diagnosis	ICD-9-CM
238.77	Post-transplant lymphoproliferative disorder [PTLD]	Diagnosis	ICD-9-CM
238.79	Other lymphatic and hematopoietic tissues	Diagnosis	ICD-9-CM
238.8	Neoplasm of uncertain behavior of other specified sites	Diagnosis	ICD-9-CM
238.9	Neoplasm of uncertain behavior, site unspecified	Diagnosis	ICD-9-CM
239	Neoplasms of unspecified nature	Diagnosis	ICD-9-CM
239.0	Neoplasm of unspecified nature of digestive system	Diagnosis	ICD-9-CM
239.1	Neoplasm of unspecified nature of respiratory system	Diagnosis	ICD-9-CM
239.2	Neoplasms of unspecified nature of bone, soft tissue, and skin	Diagnosis	ICD-9-CM
239.3	Neoplasm of unspecified nature of breast	Diagnosis	ICD-9-CM
239.4	Neoplasm of unspecified nature of bladder	Diagnosis	ICD-9-CM
239.5	Neoplasm of unspecified nature of other genitourinary organs	Diagnosis	ICD-9-CM
239.6	Neoplasm of unspecified nature of brain	Diagnosis	ICD-9-CM
239.7	Neoplasm of unspecified nature of endocrine glands and other parts of nervous system	Diagnosis	ICD-9-CM
239.8	Neoplasm of unspecified nature of other specified sites	Diagnosis	ICD-9-CM
239.81	Neoplasms of unspecified nature, retina and choroid	Diagnosis	ICD-9-CM
239.89	Neoplasms of unspecified nature, other specified sites	Diagnosis	ICD-9-CM
239.9	Neoplasm of unspecified nature, site unspecified	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
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

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Code	Description	Code Category	Code Type
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
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
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
C40.20	Malignant neoplasm of long bones of unspecified lower limb	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
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
C43.8	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C43.9	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
C44.00	Unspecified malignant neoplasm of skin of lip	Diagnosis	ICD-10-CM
C44.01	Basal cell carcinoma of skin of lip	Diagnosis	ICD-10-CM
C44.02	Squamous cell carcinoma of skin of lip	Diagnosis	ICD-10-CM
C44.09	Other specified malignant neoplasm of skin of lip	Diagnosis	ICD-10-CM
C44.101	Unspecified malignant neoplasm of skin of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C44.102	Unspecified malignant neoplasm of skin of right eyelid, including canthus	Diagnosis	ICD-10-CM
C44.109	Unspecified malignant neoplasm of skin of left eyelid, including canthus	Diagnosis	ICD-10-CM
C44.191	Other specified malignant neoplasm of skin of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C44.192	Other specified malignant neoplasm of skin of right eyelid, including canthus	Diagnosis	ICD-10-CM
C44.199	Other specified malignant neoplasm of skin of left eyelid, including canthus	Diagnosis	ICD-10-CM
C44.201	Unspecified malignant neoplasm of skin of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C44.202	Unspecified malignant neoplasm of skin of right ear and external auricular canal	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
C44.209	Unspecified malignant neoplasm of skin of left ear and external auricular canal	Diagnosis	ICD-10-CM
C44.291	Other specified malignant neoplasm of skin of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C44.292	Other specified malignant neoplasm of skin of right ear and external auricular canal	Diagnosis	ICD-10-CM
C44.299	Other specified malignant neoplasm of skin of left ear and external auricular canal	Diagnosis	ICD-10-CM
C44.300	Unspecified malignant neoplasm of skin of unspecified part of face	Diagnosis	ICD-10-CM
C44.301	Unspecified malignant neoplasm of skin of nose	Diagnosis	ICD-10-CM
C44.309	Unspecified malignant neoplasm of skin of other parts of face	Diagnosis	ICD-10-CM
C44.390	Other specified malignant neoplasm of skin of unspecified parts of face	Diagnosis	ICD-10-CM
C44.391	Other specified malignant neoplasm of skin of nose	Diagnosis	ICD-10-CM
C44.399	Other specified malignant neoplasm of skin of other parts of face	Diagnosis	ICD-10-CM
C44.40	Unspecified malignant neoplasm of skin of scalp and neck	Diagnosis	ICD-10-CM
C44.49	Other specified malignant neoplasm of skin of scalp and neck	Diagnosis	ICD-10-CM
C44.500	Unspecified malignant neoplasm of anal skin	Diagnosis	ICD-10-CM
C44.501	Unspecified malignant neoplasm of skin of breast	Diagnosis	ICD-10-CM
C44.509	Unspecified malignant neoplasm of skin of other part of trunk	Diagnosis	ICD-10-CM
C44.590	Other specified malignant neoplasm of anal skin	Diagnosis	ICD-10-CM
C44.591	Other specified malignant neoplasm of skin of breast	Diagnosis	ICD-10-CM
C44.599	Other specified malignant neoplasm of skin of other part of trunk	Diagnosis	ICD-10-CM
C44.601	Unspecified malignant neoplasm of skin of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.602	Unspecified malignant neoplasm of skin of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.609	Unspecified malignant neoplasm of skin of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.691	Other specified malignant neoplasm of skin of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.692	Other specified malignant neoplasm of skin of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.699	Other specified malignant neoplasm of skin of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C44.701	Unspecified malignant neoplasm of skin of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C44.702	Unspecified malignant neoplasm of skin of right lower limb, including hip	Diagnosis	ICD-10-CM
C44.709	Unspecified malignant neoplasm of skin of left lower limb, including hip	Diagnosis	ICD-10-CM
C44.791	Other specified malignant neoplasm of skin of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C44.792	Other specified malignant neoplasm of skin of right lower limb, including hip	Diagnosis	ICD-10-CM
C44.799	Other specified malignant neoplasm of skin of left lower limb, including hip	Diagnosis	ICD-10-CM
C44.80	Unspecified malignant neoplasm of overlapping sites of skin	Diagnosis	ICD-10-CM
C44.89	Other specified malignant neoplasm of overlapping sites of skin	Diagnosis	ICD-10-CM
C44.90	Unspecified malignant neoplasm of skin, unspecified	Diagnosis	ICD-10-CM
C44.99	Other specified malignant neoplasm 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

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Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
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
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
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

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Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
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
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
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
C72.20	Malignant neoplasm of unspecified olfactory nerve	Diagnosis	ICD-10-CM
C72.21	Malignant neoplasm of right olfactory nerve	Diagnosis	ICD-10-CM
C72.22	Malignant neoplasm of left olfactory nerve	Diagnosis	ICD-10-CM
C72.30	Malignant neoplasm of unspecified optic nerve	Diagnosis	ICD-10-CM
C72.31	Malignant neoplasm of right optic nerve	Diagnosis	ICD-10-CM
C72.32	Malignant neoplasm of left optic nerve	Diagnosis	ICD-10-CM
C72.40	Malignant neoplasm of unspecified acoustic nerve	Diagnosis	ICD-10-CM
C72.41	Malignant neoplasm of right acoustic nerve	Diagnosis	ICD-10-CM
C72.42	Malignant neoplasm of left acoustic nerve	Diagnosis	ICD-10-CM
C72.50	Malignant neoplasm of unspecified cranial nerve	Diagnosis	ICD-10-CM
C72.59	Malignant neoplasm of other cranial nerves	Diagnosis	ICD-10-CM
C72.9	Malignant neoplasm of central nervous system, unspecified	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

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Code	Description	Code Category	Code Type
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
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
C79.31	Secondary malignant neoplasm of brain	Diagnosis	ICD-10-CM
C79.32	Secondary malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM
C79.40	Secondary malignant neoplasm of unspecified part of nervous system	Diagnosis	ICD-10-CM
C79.49	Secondary malignant neoplasm of other parts of nervous system	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C81.10	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
C81.20	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
C81.30	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
C81.40	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
C81.70	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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C81.90	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
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
C82.00	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
C82.10	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
C82.20	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
C82.30	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
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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C82.40	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
C82.50	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
C82.60	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
C82.80	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
C82.90	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
C83.00	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C83.10	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
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
C83.30	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
C83.50	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
C83.70	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
C83.80	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
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C83.90	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
C84.00	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
C84.10	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
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
C84.40	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
C84.60	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

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
C84.70	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
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.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.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
C85.10	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 E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria 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
C85.20	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
C85.80	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
C85.90	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
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
C86.0	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
C88.2	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
C90.00	Multiple myeloma not having achieved remission	Diagnosis	ICD-10-CM
C90.01	Multiple myeloma in remission	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
C90.02	Multiple myeloma in relapse	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
C90.20	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
C90.30	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
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.01	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C91.02	Acute lymphoblastic leukemia, in relapse	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
C91.30	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
C91.40	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
C91.50	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
C91.60	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
C91.90	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.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.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
C92.00	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
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
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
C92.20	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
C92.30	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
C92.40	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
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
C92.51	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.52	Acute myelomonocytic leukemia, in relapse	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
C92.90	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.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.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
C93.00	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
C93.10	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
C93.30	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
C93.90	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.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
C94.00	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
C94.20	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
C94.30	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
C94.40	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
C94.80	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
C95.00	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
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
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
C95.92	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C96.0	Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis	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
C96.9	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
D00.00	Carcinoma in situ of oral cavity, unspecified site	Diagnosis	ICD-10-CM
D00.01	Carcinoma in situ of labial mucosa and vermilion border	Diagnosis	ICD-10-CM
D00.02	Carcinoma in situ of buccal mucosa	Diagnosis	ICD-10-CM
D00.03	Carcinoma in situ of gingiva and edentulous alveolar ridge	Diagnosis	ICD-10-CM
D00.04	Carcinoma in situ of soft palate	Diagnosis	ICD-10-CM
D00.05	Carcinoma in situ of hard palate	Diagnosis	ICD-10-CM
D00.06	Carcinoma in situ of floor of mouth	Diagnosis	ICD-10-CM
D00.07	Carcinoma in situ of tongue	Diagnosis	ICD-10-CM
D00.08	Carcinoma in situ of pharynx	Diagnosis	ICD-10-CM
D00.1	Carcinoma in situ of esophagus	Diagnosis	ICD-10-CM
D00.2	Carcinoma in situ of stomach	Diagnosis	ICD-10-CM
D01.0	Carcinoma in situ of colon	Diagnosis	ICD-10-CM
D01.1	Carcinoma in situ of rectosigmoid junction	Diagnosis	ICD-10-CM
D01.2	Carcinoma in situ of rectum	Diagnosis	ICD-10-CM
D01.3	Carcinoma in situ of anus and anal canal	Diagnosis	ICD-10-CM
D01.40	Carcinoma in situ of unspecified part of intestine	Diagnosis	ICD-10-CM
D01.49	Carcinoma in situ of other parts of intestine	Diagnosis	ICD-10-CM
D01.5	Carcinoma in situ of liver, gallbladder and bile ducts	Diagnosis	ICD-10-CM
D01.7	Carcinoma in situ of other specified digestive organs	Diagnosis	ICD-10-CM
D01.9	Carcinoma in situ of digestive organ, unspecified	Diagnosis	ICD-10-CM
D02.0	Carcinoma in situ of larynx	Diagnosis	ICD-10-CM
D02.1	Carcinoma in situ of trachea	Diagnosis	ICD-10-CM
D02.20	Carcinoma in situ of unspecified bronchus and lung	Diagnosis	ICD-10-CM
D02.21	Carcinoma in situ of right bronchus and lung	Diagnosis	ICD-10-CM
D02.22	Carcinoma in situ of left bronchus and lung	Diagnosis	ICD-10-CM
D02.3	Carcinoma in situ of other parts of respiratory system	Diagnosis	ICD-10-CM
D02.4	Carcinoma in situ of respiratory system, unspecified	Diagnosis	ICD-10-CM
D03.0	Melanoma in situ of lip	Diagnosis	ICD-10-CM
D03.10	Melanoma in situ of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D03.11	Melanoma in situ of right eyelid, including canthus	Diagnosis	ICD-10-CM
D03.12	Melanoma in situ of left eyelid, including canthus	Diagnosis	ICD-10-CM
D03.20	Melanoma in situ of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D03.21	Melanoma in situ of right ear and external auricular canal	Diagnosis	ICD-10-CM
D03.22	Melanoma in situ of left ear and external auricular canal	Diagnosis	ICD-10-CM
D03.30	Melanoma in situ of unspecified part of face	Diagnosis	ICD-10-CM
D03.39	Melanoma in situ of other parts of face	Diagnosis	ICD-10-CM
D03.4	Melanoma in situ of scalp and neck	Diagnosis	ICD-10-CM
D03.51	Melanoma in situ of anal skin	Diagnosis	ICD-10-CM
D03.52	Melanoma in situ of breast (skin) (soft tissue)	Diagnosis	ICD-10-CM
D03.59	Melanoma in situ of other part of trunk	Diagnosis	ICD-10-CM
D03.60	Melanoma in situ of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.61	Melanoma in situ of right upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.62	Melanoma in situ of left upper limb, including shoulder	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D03.70	Melanoma in situ of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D03.71	Melanoma in situ of right lower limb, including hip	Diagnosis	ICD-10-CM
D03.72	Melanoma in situ of left lower limb, including hip	Diagnosis	ICD-10-CM
D03.8	Melanoma in situ of other sites	Diagnosis	ICD-10-CM
D03.9	Melanoma in situ, unspecified	Diagnosis	ICD-10-CM
D04.0	Carcinoma in situ of skin of lip	Diagnosis	ICD-10-CM
D04.10	Carcinoma in situ of skin of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D04.11	Carcinoma in situ of skin of right eyelid, including canthus	Diagnosis	ICD-10-CM
D04.12	Carcinoma in situ of skin of left eyelid, including canthus	Diagnosis	ICD-10-CM
D04.20	Carcinoma in situ of skin of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D04.21	Carcinoma in situ of skin of right ear and external auricular canal	Diagnosis	ICD-10-CM
D04.22	Carcinoma in situ of skin of left ear and external auricular canal	Diagnosis	ICD-10-CM
D04.30	Carcinoma in situ of skin of unspecified part of face	Diagnosis	ICD-10-CM
D04.39	Carcinoma in situ of skin of other parts of face	Diagnosis	ICD-10-CM
D04.4	Carcinoma in situ of skin of scalp and neck	Diagnosis	ICD-10-CM
D04.5	Carcinoma in situ of skin of trunk	Diagnosis	ICD-10-CM
D04.60	Carcinoma in situ of skin of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D04.61	Carcinoma in situ of skin of right upper limb, including shoulder	Diagnosis	ICD-10-CM
D04.62	Carcinoma in situ of skin of left upper limb, including shoulder	Diagnosis	ICD-10-CM
D04.70	Carcinoma in situ of skin of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D04.71	Carcinoma in situ of skin of right lower limb, including hip	Diagnosis	ICD-10-CM
D04.72	Carcinoma in situ of skin of left lower limb, including hip	Diagnosis	ICD-10-CM
D04.8	Carcinoma in situ of skin of other sites	Diagnosis	ICD-10-CM
D04.9	Carcinoma in situ of skin, unspecified	Diagnosis	ICD-10-CM
D05.00	Lobular carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.01	Lobular carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.02	Lobular carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.10	Intraductal carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.11	Intraductal carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.12	Intraductal carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.80	Other specified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.81	Other specified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.82	Other specified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.90	Unspecified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.91	Unspecified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.92	Unspecified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D06.0	Carcinoma in situ of endocervix	Diagnosis	ICD-10-CM
D06.1	Carcinoma in situ of exocervix	Diagnosis	ICD-10-CM
D06.7	Carcinoma in situ of other parts of cervix	Diagnosis	ICD-10-CM
D06.9	Carcinoma in situ of cervix, unspecified	Diagnosis	ICD-10-CM
D07.0	Carcinoma in situ of endometrium	Diagnosis	ICD-10-CM
D07.1	Carcinoma in situ of vulva	Diagnosis	ICD-10-CM
D07.2	Carcinoma in situ of vagina	Diagnosis	ICD-10-CM
D07.30	Carcinoma in situ of unspecified female genital organs	Diagnosis	ICD-10-CM
D07.39	Carcinoma in situ of other female genital organs	Diagnosis	ICD-10-CM
D07.4	Carcinoma in situ of penis	Diagnosis	ICD-10-CM
D07.5	Carcinoma in situ of prostate	Diagnosis	ICD-10-CM
D07.60	Carcinoma in situ of unspecified male genital organs	Diagnosis	ICD-10-CM
D07.61	Carcinoma in situ of scrotum	Diagnosis	ICD-10-CM
D07.69	Carcinoma in situ of other male genital organs	Diagnosis	ICD-10-CM
D09.0	Carcinoma in situ of bladder	Diagnosis	ICD-10-CM
D09.10	Carcinoma in situ of unspecified urinary organ	Diagnosis	ICD-10-CM
D09.19	Carcinoma in situ of other urinary organs	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D09.20	Carcinoma in situ of unspecified eye	Diagnosis	ICD-10-CM
D09.21	Carcinoma in situ of right eye	Diagnosis	ICD-10-CM
D09.22	Carcinoma in situ of left eye	Diagnosis	ICD-10-CM
D09.3	Carcinoma in situ of thyroid and other endocrine glands	Diagnosis	ICD-10-CM
D09.8	Carcinoma in situ of other specified sites	Diagnosis	ICD-10-CM
D09.9	Carcinoma in situ, unspecified	Diagnosis	ICD-10-CM
D25.0	Submucous leiomyoma of uterus	Diagnosis	ICD-10-CM
D25.1	Intramural leiomyoma of uterus	Diagnosis	ICD-10-CM
D25.2	Subserosal leiomyoma of uterus	Diagnosis	ICD-10-CM
D25.9	Leiomyoma of uterus, unspecified	Diagnosis	ICD-10-CM
D37.01	Neoplasm of uncertain behavior of lip	Diagnosis	ICD-10-CM
D37.02	Neoplasm of uncertain behavior of tongue	Diagnosis	ICD-10-CM
D37.030	Neoplasm of uncertain behavior of the parotid salivary glands	Diagnosis	ICD-10-CM
D37.031	Neoplasm of uncertain behavior of the sublingual salivary glands	Diagnosis	ICD-10-CM
D37.032	Neoplasm of uncertain behavior of the submandibular salivary glands	Diagnosis	ICD-10-CM
D37.039	Neoplasm of uncertain behavior of the major salivary glands, unspecified	Diagnosis	ICD-10-CM
D37.04	Neoplasm of uncertain behavior of the minor salivary glands	Diagnosis	ICD-10-CM
D37.05	Neoplasm of uncertain behavior of pharynx	Diagnosis	ICD-10-CM
D37.09	Neoplasm of uncertain behavior of other specified sites of the oral cavity	Diagnosis	ICD-10-CM
D37.1	Neoplasm of uncertain behavior of stomach	Diagnosis	ICD-10-CM
D37.2	Neoplasm of uncertain behavior of small intestine	Diagnosis	ICD-10-CM
D37.3	Neoplasm of uncertain behavior of appendix	Diagnosis	ICD-10-CM
D37.4	Neoplasm of uncertain behavior of colon	Diagnosis	ICD-10-CM
D37.5	Neoplasm of uncertain behavior of rectum	Diagnosis	ICD-10-CM
D37.6	Neoplasm of uncertain behavior of liver, gallbladder and bile ducts	Diagnosis	ICD-10-CM
D37.8	Neoplasm of uncertain behavior of other specified digestive organs	Diagnosis	ICD-10-CM
D37.9	Neoplasm of uncertain behavior of digestive organ, unspecified	Diagnosis	ICD-10-CM
D38.0	Neoplasm of uncertain behavior of larynx	Diagnosis	ICD-10-CM
D38.1	Neoplasm of uncertain behavior of trachea, bronchus and lung	Diagnosis	ICD-10-CM
D38.2	Neoplasm of uncertain behavior of pleura	Diagnosis	ICD-10-CM
D38.3	Neoplasm of uncertain behavior of mediastinum	Diagnosis	ICD-10-CM
D38.4	Neoplasm of uncertain behavior of thymus	Diagnosis	ICD-10-CM
D38.5	Neoplasm of uncertain behavior of other respiratory organs	Diagnosis	ICD-10-CM
D38.6	Neoplasm of uncertain behavior of respiratory organ, unspecified	Diagnosis	ICD-10-CM
D39.0	Neoplasm of uncertain behavior of uterus	Diagnosis	ICD-10-CM
D39.10	Neoplasm of uncertain behavior of unspecified ovary	Diagnosis	ICD-10-CM
D39.11	Neoplasm of uncertain behavior of right ovary	Diagnosis	ICD-10-CM
D39.12	Neoplasm of uncertain behavior of left ovary	Diagnosis	ICD-10-CM
D39.2	Neoplasm of uncertain behavior of placenta	Diagnosis	ICD-10-CM
D39.8	Neoplasm of uncertain behavior of other specified female genital organs	Diagnosis	ICD-10-CM
D39.9	Neoplasm of uncertain behavior of female genital organ, unspecified	Diagnosis	ICD-10-CM
D3A.00	Benign carcinoid tumor of unspecified site	Diagnosis	ICD-10-CM
D3A.010	Benign carcinoid tumor of the duodenum	Diagnosis	ICD-10-CM
D3A.011	Benign carcinoid tumor of the jejunum	Diagnosis	ICD-10-CM
D3A.012	Benign carcinoid tumor of the ileum	Diagnosis	ICD-10-CM
D3A.019	Benign carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-10-CM
D3A.020	Benign carcinoid tumor of the appendix	Diagnosis	ICD-10-CM
D3A.021	Benign carcinoid tumor of the cecum	Diagnosis	ICD-10-CM
D3A.022	Benign carcinoid tumor of the ascending colon	Diagnosis	ICD-10-CM
D3A.023	Benign carcinoid tumor of the transverse colon	Diagnosis	ICD-10-CM
D3A.024	Benign carcinoid tumor of the descending colon	Diagnosis	ICD-10-CM
D3A.025	Benign carcinoid tumor of the sigmoid colon	Diagnosis	ICD-10-CM
D3A.026	Benign carcinoid tumor of the rectum	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D3A.029	Benign carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-10-CM
D3A.090	Benign carcinoid tumor of the bronchus and lung	Diagnosis	ICD-10-CM
D3A.091	Benign carcinoid tumor of the thymus	Diagnosis	ICD-10-CM
D3A.092	Benign carcinoid tumor of the stomach	Diagnosis	ICD-10-CM
D3A.093	Benign carcinoid tumor of the kidney	Diagnosis	ICD-10-CM
D3A.094	Benign carcinoid tumor of the foregut, unspecified	Diagnosis	ICD-10-CM
D3A.095	Benign carcinoid tumor of the midgut, unspecified	Diagnosis	ICD-10-CM
D3A.096	Benign carcinoid tumor of the hindgut, unspecified	Diagnosis	ICD-10-CM
D3A.098	Benign carcinoid tumors of other sites	Diagnosis	ICD-10-CM
D3A.8	Other benign neuroendocrine tumors	Diagnosis	ICD-10-CM
D40.0	Neoplasm of uncertain behavior of prostate	Diagnosis	ICD-10-CM
D40.10	Neoplasm of uncertain behavior of unspecified testis	Diagnosis	ICD-10-CM
D40.11	Neoplasm of uncertain behavior of right testis	Diagnosis	ICD-10-CM
D40.12	Neoplasm of uncertain behavior of left testis	Diagnosis	ICD-10-CM
D40.8	Neoplasm of uncertain behavior of other specified male genital organs	Diagnosis	ICD-10-CM
D40.9	Neoplasm of uncertain behavior of male genital organ, unspecified	Diagnosis	ICD-10-CM
D41.00	Neoplasm of uncertain behavior of unspecified kidney	Diagnosis	ICD-10-CM
D41.01	Neoplasm of uncertain behavior of right kidney	Diagnosis	ICD-10-CM
D41.02	Neoplasm of uncertain behavior of left kidney	Diagnosis	ICD-10-CM
D41.10	Neoplasm of uncertain behavior of unspecified renal pelvis	Diagnosis	ICD-10-CM
D41.11	Neoplasm of uncertain behavior of right renal pelvis	Diagnosis	ICD-10-CM
D41.12	Neoplasm of uncertain behavior of left renal pelvis	Diagnosis	ICD-10-CM
D41.20	Neoplasm of uncertain behavior of unspecified ureter	Diagnosis	ICD-10-CM
D41.21	Neoplasm of uncertain behavior of right ureter	Diagnosis	ICD-10-CM
D41.22	Neoplasm of uncertain behavior of left ureter	Diagnosis	ICD-10-CM
D41.3	Neoplasm of uncertain behavior of urethra	Diagnosis	ICD-10-CM
D41.4	Neoplasm of uncertain behavior of bladder	Diagnosis	ICD-10-CM
D41.8	Neoplasm of uncertain behavior of other specified urinary organs	Diagnosis	ICD-10-CM
D41.9	Neoplasm of uncertain behavior of unspecified urinary organ	Diagnosis	ICD-10-CM
D42.0	Neoplasm of uncertain behavior of cerebral meninges	Diagnosis	ICD-10-CM
D42.1	Neoplasm of uncertain behavior of spinal meninges	Diagnosis	ICD-10-CM
D42.9	Neoplasm of uncertain behavior of meninges, unspecified	Diagnosis	ICD-10-CM
D43.0	Neoplasm of uncertain behavior of brain, supratentorial	Diagnosis	ICD-10-CM
D43.1	Neoplasm of uncertain behavior of brain, infratentorial	Diagnosis	ICD-10-CM
D43.2	Neoplasm of uncertain behavior of brain, unspecified	Diagnosis	ICD-10-CM
D43.3	Neoplasm of uncertain behavior of cranial nerves	Diagnosis	ICD-10-CM
D43.4	Neoplasm of uncertain behavior of spinal cord	Diagnosis	ICD-10-CM
D43.8	Neoplasm of uncertain behavior of other specified parts of central nervous system	Diagnosis	ICD-10-CM
D43.9	Neoplasm of uncertain behavior of central nervous system, unspecified	Diagnosis	ICD-10-CM
D44.0	Neoplasm of uncertain behavior of thyroid gland	Diagnosis	ICD-10-CM
D44.10	Neoplasm of uncertain behavior of unspecified adrenal gland	Diagnosis	ICD-10-CM
D44.11	Neoplasm of uncertain behavior of right adrenal gland	Diagnosis	ICD-10-CM
D44.12	Neoplasm of uncertain behavior of left adrenal gland	Diagnosis	ICD-10-CM
D44.2	Neoplasm of uncertain behavior of parathyroid gland	Diagnosis	ICD-10-CM
D44.3	Neoplasm of uncertain behavior of pituitary gland	Diagnosis	ICD-10-CM
D44.4	Neoplasm of uncertain behavior of craniopharyngeal duct	Diagnosis	ICD-10-CM
D44.5	Neoplasm of uncertain behavior of pineal gland	Diagnosis	ICD-10-CM
D44.6	Neoplasm of uncertain behavior of carotid body	Diagnosis	ICD-10-CM
D44.7	Neoplasm of uncertain behavior of aortic body and other paraganglia	Diagnosis	ICD-10-CM
D44.9	Neoplasm of uncertain behavior of unspecified endocrine gland	Diagnosis	ICD-10-CM
D45	Polycythemia vera	Diagnosis	ICD-10-CM
D46.0	Refractory anemia without ring sideroblasts, so stated	Diagnosis	ICD-10-CM
D46.1	Refractory anemia with ring sideroblasts	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D46.20	Refractory anemia with excess of blasts, unspecified	Diagnosis	ICD-10-CM
D46.21	Refractory anemia with excess of blasts 1	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D46.4	Refractory anemia, unspecified	Diagnosis	ICD-10-CM
D46.9	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-10-CM
D46.A	Refractory cytopenia with multilineage dysplasia	Diagnosis	ICD-10-CM
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts	Diagnosis	ICD-10-CM
D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality	Diagnosis	ICD-10-CM
D46.Z	Other myelodysplastic syndromes	Diagnosis	ICD-10-CM
D47.01	Cutaneous mastocytosis	Diagnosis	ICD-10-CM
D47.02	Systemic mastocytosis	Diagnosis	ICD-10-CM
D47.09	Other mast cell neoplasms of uncertain behavior	Diagnosis	ICD-10-CM
D47.1	Chronic myeloproliferative disease	Diagnosis	ICD-10-CM
D47.3	Essential (hemorrhagic) thrombocythemia	Diagnosis	ICD-10-CM
D47.9	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
D47.Z1	Post-transplant lymphoproliferative disorder (PTLD)	Diagnosis	ICD-10-CM
D47.Z2	Castleman disease	Diagnosis	ICD-10-CM
D47.Z9	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D48.0	Neoplasm of uncertain behavior of bone and articular cartilage	Diagnosis	ICD-10-CM
D48.1	Neoplasm of uncertain behavior of connective and other soft tissue	Diagnosis	ICD-10-CM
D48.2	Neoplasm of uncertain behavior of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
D48.3	Neoplasm of uncertain behavior of retroperitoneum	Diagnosis	ICD-10-CM
D48.4	Neoplasm of uncertain behavior of peritoneum	Diagnosis	ICD-10-CM
D48.5	Neoplasm of uncertain behavior of skin	Diagnosis	ICD-10-CM
D48.60	Neoplasm of uncertain behavior of unspecified breast	Diagnosis	ICD-10-CM
D48.61	Neoplasm of uncertain behavior of right breast	Diagnosis	ICD-10-CM
D48.62	Neoplasm of uncertain behavior of left breast	Diagnosis	ICD-10-CM
D48.7	Neoplasm of uncertain behavior of other specified sites	Diagnosis	ICD-10-CM
D48.9	Neoplasm of uncertain behavior, unspecified	Diagnosis	ICD-10-CM
D49.0	Neoplasm of unspecified behavior of digestive system	Diagnosis	ICD-10-CM
D49.1	Neoplasm of unspecified behavior of respiratory system	Diagnosis	ICD-10-CM
D49.2	Neoplasm of unspecified behavior of bone, soft tissue, and skin	Diagnosis	ICD-10-CM
D49.3	Neoplasm of unspecified behavior of breast	Diagnosis	ICD-10-CM
D49.4	Neoplasm of unspecified behavior of bladder	Diagnosis	ICD-10-CM
D49.511	Neoplasm of unspecified behavior of right kidney	Diagnosis	ICD-10-CM
D49.512	Neoplasm of unspecified behavior of left kidney	Diagnosis	ICD-10-CM
D49.519	Neoplasm of unspecified behavior of unspecified kidney	Diagnosis	ICD-10-CM
D49.59	Neoplasm of unspecified behavior of other genitourinary organ	Diagnosis	ICD-10-CM
D49.6	Neoplasm of unspecified behavior of brain	Diagnosis	ICD-10-CM
D49.7	Neoplasm of unspecified behavior of endocrine glands and other parts of nervous system	Diagnosis	ICD-10-CM
D49.81	Neoplasm of unspecified behavior of retina and choroid	Diagnosis	ICD-10-CM
D49.89	Neoplasm of unspecified behavior of other specified sites	Diagnosis	ICD-10-CM
D49.9	Neoplasm of unspecified behavior of unspecified site	Diagnosis	ICD-10-CM
Q85.00	Neurofibromatosis, unspecified	Diagnosis	ICD-10-CM
Q85.01	Neurofibromatosis, type 1	Diagnosis	ICD-10-CM
Q85.02	Neurofibromatosis, type 2	Diagnosis	ICD-10-CM
Q85.03	Schwannomatosis	Diagnosis	ICD-10-CM
Q85.09	Other neurofibromatosis	Diagnosis	ICD-10-CM
55859	Transperineal placement of needles or catheters into prostate for interstitial radioelement application, with or without cystoscopy	Procedure	CPT-4

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Code	Description	Code Category	Code Type
55860	Exposure of prostate, any approach, for insertion of radioactive substance;	Procedure	CPT-4
55862	Exposure of prostate, any approach, for insertion of radioactive substance; with lymph node biopsy(s) (limited pelvic lymphadenectomy)	Procedure	CPT-4
55865	Exposure of prostate, any approach, for insertion of radioactive substance; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes	Procedure	CPT-4
55875	Transperineal placement of needles or catheters into prostate for interstitial radioelement application, with or without cystoscopy	Procedure	CPT-4
76950	Ultrasonic guidance for placement of radiation therapy fields	Procedure	CPT-4
76960	Ultrasonic guidance for placement of radiation therapy fields, except for B-scan echography	Procedure	CPT-4
77280	Therapeutic radiology simulation-aided field setting; simple	Procedure	CPT-4
77285	Therapeutic radiology simulation-aided field setting; intermediate	Procedure	CPT-4
77290	Therapeutic radiology simulation-aided field setting; complex	Procedure	CPT-4
77295	3-dimensional radiotherapy plan, including dose-volume histograms	Procedure	CPT-4
77299	Unlisted procedure, therapeutic radiology clinical treatment planning	Procedure	CPT-4
77300	Basic radiation dosimetry calculation, central axis depth dose calculation, TDF, NSD, gap calculation, off axis factor, tissue inhomogeneity factors, calculation of non-ionizing radiation surface and depth dose, as required during course of treatment, only when prescribed by the treating physician	Procedure	CPT-4
77305	Teletherapy, isodose plan (whether hand or computer calculated); simple (1 or 2 parallel opposed unmodified ports directed to a single area of interest)	Procedure	CPT-4
77310	Teletherapy, isodose plan (whether hand or computer calculated); intermediate (3 or more treatment ports directed to a single area of interest)	Procedure	CPT-4
77315	Teletherapy, isodose plan (whether hand or computer calculated); complex (mantle or inverted Y, tangential ports, the use of wedges, compensators, complex blocking, rotational beam, or special beam considerations)	Procedure	CPT-4
77321	Special teletherapy port plan, particles, hemibody, total body	Procedure	CPT-4
77326	Brachytherapy isodose plan; simple (calculation made from single plane, 1 to 4 sources/ribbon application, remote afterloading brachytherapy, 1 to 8 sources)	Procedure	CPT-4
77327	Brachytherapy isodose plan; intermediate (multiplane dosage calculations, application involving 5 to 10 sources/ribbons, remote afterloading brachytherapy, 9 to 12 sources)	Procedure	CPT-4
77328	Brachytherapy isodose plan; complex (multiplane isodose plan, volume implant calculations, over 10 sources/ribbons used, special spatial reconstruction, remote afterloading brachytherapy, over 12 sources)	Procedure	CPT-4
77401	Radiation treatment delivery, superficial and/or ortho voltage, per day	Procedure	CPT-4
77402	Radiation treatment delivery, =>1 MeV; simple	Procedure	CPT-4
77403	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 6-10 MeV	Procedure	CPT-4
77404	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 11-19 MeV	Procedure	CPT-4
77406	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 20 MeV or greater	Procedure	CPT-4
77407	Radiation treatment delivery, =>1 MeV; intermediate	Procedure	CPT-4
77408	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 6-10 MeV	Procedure	CPT-4
77409	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 11-19 MeV	Procedure	CPT-4
77411	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 20 MeV or greater	Procedure	CPT-4
77412	Radiation treatment delivery, =>1 MeV; complex	Procedure	CPT-4
77413	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 6-10 MeV	Procedure	CPT-4

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
77414	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 MeV	Procedure	CPT-4
77416	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 20 MeV or greater	Procedure	CPT-4
77427	Radiation treatment management, 5 treatments	Procedure	CPT-4
77432	Stereotactic radiation treatment management of cranial lesion(s) (complete course of treatment consisting of 1 session)	Procedure	CPT-4
77469	Intraoperative radiation treatment management	Procedure	CPT-4
77470	Special treatment procedure (eg, total body irradiation, hemibody radiation, per oral or endocavitary irradiation)	Procedure	CPT-4
77499	Unlisted procedure, therapeutic radiology treatment management	Procedure	CPT-4
77750	Infusion or instillation of radioelement solution (includes 3-month follow-up care)	Procedure	CPT-4
77761	Intracavitary radiation source application; simple	Procedure	CPT-4
77762	Intracavitary radiation source application; intermediate	Procedure	CPT-4
77763	Intracavitary radiation source application; complex	Procedure	CPT-4
77776	Interstitial radiation source application; simple	Procedure	CPT-4
77777	Interstitial radiation source application; intermediate	Procedure	CPT-4
77778	Interstitial radiation source application; complex	Procedure	CPT-4
77781	Remote afterloading high intensity brachytherapy; 1-4 source positions or catheters	Procedure	CPT-4
77782	Remote afterloading high intensity brachytherapy; 5-8 source positions or catheters	Procedure	CPT-4
77783	Remote afterloading high intensity brachytherapy; 9-12 source positions or catheters	Procedure	CPT-4
77784	Remote afterloading high intensity brachytherapy; over 12 source positions or catheters	Procedure	CPT-4
77785	Remote afterloading high dose rate radionuclide brachytherapy; 1 channel	Procedure	CPT-4
77786	Remote afterloading high dose rate radionuclide brachytherapy; 2-12 channels	Procedure	CPT-4
77787	Remote afterloading high dose rate radionuclide brachytherapy; over 12 channels	Procedure	CPT-4
77789	Surface application of low dose rate radionuclide source	Procedure	CPT-4
77799	Unlisted procedure, clinical brachytherapy	Procedure	CPT-4
79005	Radiopharmaceutical therapy, by oral administration	Procedure	CPT-4
79101	Radiopharmaceutical therapy, by intravenous administration	Procedure	CPT-4
79200	Radiopharmaceutical therapy, by intracavitary administration	Procedure	CPT-4
79300	Radiopharmaceutical therapy, by interstitial radioactive colloid administration	Procedure	CPT-4
79400	Radiopharmaceutical therapy, nonthyroid, nonhematologic by intervenous injection	Procedure	CPT-4
79403	Radiopharmaceutical therapy, radiolabeled monoclonal antibody by intravenous infusion	Procedure	CPT-4
79420	Intravascular radiopharmaceutical therapy, particulate	Procedure	CPT-4
79440	Radiopharmaceutical therapy, by intra-articular administration	Procedure	CPT-4
79900	Provision of therapeutic radiopharmaceutical(s)	Procedure	CPT-4
79999	Radiopharmaceutical therapy, unlisted procedure	Procedure	CPT-4
11600	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter 0.5 cm or less	Procedure	CPT-4
11601	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter 0.6 to 1.0 cm	Procedure	CPT-4
11602	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter 1.1 to 2.0 cm	Procedure	CPT-4
11603	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter 2.1 to 3.0 cm	Procedure	CPT-4
11604	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter 3.1 to 4.0 cm	Procedure	CPT-4
11606	Excision, malignant lesion including margins, trunk, arms, or legs; excised diameter over 4.0 cm	Procedure	CPT-4
11620	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter 0.5 cm or less	Procedure	CPT-4

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Code	Description	Code Category	Code Type
11621	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter 0.6 to 1.0 cm	Procedure	CPT-4
11622	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter 1.1 to 2.0 cm	Procedure	CPT-4
11623	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter 2.1 to 3.0 cm	Procedure	CPT-4
11624	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter 3.1 to 4.0 cm	Procedure	CPT-4
11626	Excision, malignant lesion including margins, scalp, neck, hands, feet, genitalia; excised diameter over 4.0 cm	Procedure	CPT-4
11640	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter 0.5 cm or less	Procedure	CPT-4
11641	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter 0.6 to 1.0 cm	Procedure	CPT-4
11642	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter 1.1 to 2.0 cm	Procedure	CPT-4
11643	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter 2.1 to 3.0 cm	Procedure	CPT-4
11644	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter 3.1 to 4.0 cm	Procedure	CPT-4
11646	Excision, malignant lesion including margins, face, ears, eyelids, nose, lips; excised diameter over 4.0 cm	Procedure	CPT-4
17260	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter 0.5 cm or less	Procedure	CPT-4
17261	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter 0.6 to 1.0 cm	Procedure	CPT-4
17262	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter 1.1 to 2.0 cm	Procedure	CPT-4
17263	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter 2.1 to 3.0 cm	Procedure	CPT-4
17264	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter 3.1 to 4.0 cm	Procedure	CPT-4
17266	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), trunk, arms or legs; lesion diameter over 4.0 cm	Procedure	CPT-4
17270	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter 0.5 cm or less	Procedure	CPT-4
17271	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter 0.6 to 1.0 cm	Procedure	CPT-4
17272	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter 1.1 to 2.0 cm	Procedure	CPT-4
17273	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter 2.1 to 3.0 cm	Procedure	CPT-4
17274	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter 3.1 to 4.0 cm	Procedure	CPT-4
17276	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), scalp, neck, hands, feet, genitalia; lesion diameter over 4.0 cm	Procedure	CPT-4

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Code	Description	Code Category	Code Type
17280	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter 0.5 cm or less	Procedure	CPT-4
17281	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter 0.6 to 1.0 cm	Procedure	CPT-4
17282	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter 1.1 to 2.0 cm	Procedure	CPT-4
17283	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter 2.1 to 3.0 cm	Procedure	CPT-4
17284	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter 3.1 to 4.0 cm	Procedure	CPT-4
17286	Destruction, malignant lesion (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery, surgical curettement), face, ears, eyelids, nose, lips, mucous membrane; lesion diameter over 4.0 cm	Procedure	CPT-4
17304	Chemosurgery (Mohs micrographic technique), including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and complete histopathologic preparation including the first routine stain (eg, hematoxylin and eosin, toluidine blue); first stage, fresh tissue technique, up to 5 specimens	Procedure	CPT-4
17305	Chemosurgery (Mohs micrographic technique), including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and complete histopathologic preparation including the first routine stain (eg, hematoxylin and eosin, toluidine blue); second stage, fixed or fresh tissue, up to 5 specimens	Procedure	CPT-4
17306	Chemosurgery (Mohs micrographic technique), including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and complete histopathologic preparation including the first routine stain (eg, hematoxylin and eosin, toluidine blue); third stage, fixed or fresh tissue, up to 5 specimens	Procedure	CPT-4
17307	Chemosurgery (Mohs micrographic technique), including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and complete histopathologic preparation including the first routine stain (eg, hematoxylin and eosin, toluidine blue); additional stage(s), up to 5 specimens, each stage	Procedure	CPT-4
17310	Chemosurgery (Mohs micrographic technique), including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and complete histopathologic preparation including the first routine stain (eg, hematoxylin and eosin, toluidine blue); each additional specimen, after the first 5 specimens, fixed or fresh tissue, any stage (List separately in addition to code for primary procedure)	Procedure	CPT-4
17311	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), head, neck, hands, feet, genitalia, or any location with surgery directly involving muscle, cartilage, bone, tendon, major nerves, or vessels; first stage, up to 5 tissue blocks	Procedure	CPT-4

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Code	Description	Code Category	Code Type
17312	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), head, neck, hands, feet, genitalia, or any location with surgery directly involving muscle, cartilage, bone, tendon, major nerves, or vessels; each additional stage after the first stage, up to 5 tissue blocks (List separately in addition to code for primary procedure)	Procedure	CPT-4
17313	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), of the trunk, arms, or legs; first stage, up to 5 tissue blocks	Procedure	CPT-4
17314	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), of the trunk, arms, or legs; each additional stage after the first stage, up to 5 tissue blocks (List separately in addition to code for primary procedure)	Procedure	CPT-4
17315	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), each additional block after the first 5 tissue blocks, any stage (List separately in addition to code for primary procedure)	Procedure	CPT-4
Kidney Transplant or Dialysis			
55.6	Transplant of kidney	Procedure	ICD-9-CM
55.61	Renal autotransplantation	Procedure	ICD-9-CM
55.69	Other kidney transplantation	Procedure	ICD-9-CM
99681	Complications of transplanted kidney	Diagnosis	ICD-9-CM
V420	Kidney replaced by transplant	Diagnosis	ICD-9-CM
T86.10	Unspecified complication of kidney transplant	Diagnosis	ICD-10-CM
T86.11	Kidney transplant rejection	Diagnosis	ICD-10-CM
T86.12	Kidney transplant failure	Diagnosis	ICD-10-CM
T86.13	Kidney transplant infection	Diagnosis	ICD-10-CM
T86.19	Other complication of kidney transplant	Diagnosis	ICD-10-CM
Z48.22	Encounter for aftercare following kidney transplant	Diagnosis	ICD-10-CM
Z94.0	Kidney transplant status	Diagnosis	ICD-10-CM
0TS00ZZ	Reposition Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TS10ZZ	Reposition Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
792.5	Cloudy (hemodialysis) (peritoneal) dialysis effluent	Diagnosis	ICD-9-CM
V45.1	Renal dialysis status	Diagnosis	ICD-9-CM
V45.11	Renal dialysis status	Diagnosis	ICD-9-CM
V45.12	Noncompliance with renal dialysis	Diagnosis	ICD-9-CM
V56.0	Encounter for extracorporeal dialysis	Diagnosis	ICD-9-CM
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	Diagnosis	ICD-9-CM
V56.2	Fitting and adjustment of peritoneal dialysis catheter	Diagnosis	ICD-9-CM
V56.3	Encounter for adequacy testing for dialysis	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V56.31	Encounter for adequacy testing for hemodialysis	Diagnosis	ICD-9-CM
V56.32	Encounter for adequacy testing for peritoneal dialysis	Diagnosis	ICD-9-CM
V56.8	Encounter other dialysis	Diagnosis	ICD-9-CM
R88.0	Cloudy (hemodialysis) (peritoneal) dialysis effluent	Diagnosis	ICD-10-CM
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	Diagnosis	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	Diagnosis	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	Diagnosis	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	Diagnosis	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	Diagnosis	ICD-10-CM
Z99.2	Dependence on renal dialysis	Diagnosis	ICD-10-CM
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	Procedure	CPT-4
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection	Procedure	CPT-4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	Procedure	CPT-4
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis prescription	Procedure	CPT-4
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4

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Code	Description	Code Category	Code Type
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90958	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	Procedure	CPT-4
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age	Procedure	CPT-4
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age	Procedure	CPT-4
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age	Procedure	CPT-4
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older	Procedure	CPT-4
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4

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Code	Description	Code Category	Code Type
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis	Procedure	CPT-4
90989	Dialysis training, patient, including helper where applicable, any mode, completed course	Procedure	CPT-4
90990	Hemodialysis Training And/or Counseling	Procedure	CPT-4
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily Responsible	Procedure	CPT-4
90992	Peritoneal Dialysis Training And/or Counseling	Procedure	CPT-4
90993	Dialysis training, patient, including helper where applicable, any mode, course not completed, per training session	Procedure	CPT-4
90994	Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)	Procedure	CPT-4
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	Procedure	CPT-4
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	Procedure	CPT-4
90997	Hemoperfusion (eg, with activated charcoal or resin)	Procedure	CPT-4
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	Procedure	CPT-4
90999	Unlisted dialysis procedure, inpatient or outpatient	Procedure	CPT-4

Potential Alternative Indications

4534	Acute venous embolism and thrombosis of deep vessels of lower extremity	Diagnosis	ICD-9-CM
45340	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity	Diagnosis	ICD-9-CM
45341	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity	Diagnosis	ICD-9-CM
45342	Acute venous embolism and thrombosis of deep vessels of distal lower extremity	Diagnosis	ICD-9-CM
4511	Phlebitis and thrombophlebitis of deep veins of lower extremities	Diagnosis	ICD-9-CM
45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	Diagnosis	ICD-9-CM
45119	Phlebitis and thrombophlebitis of deep veins of lower extremities, other	Diagnosis	ICD-9-CM
4512	Phlebitis and thrombophlebitis of lower extremities, unspecified	Diagnosis	ICD-9-CM
45181	Phlebitis and thrombophlebitis of iliac vein	Diagnosis	ICD-9-CM
45183	Phlebitis and thrombophlebitis of deep veins of upper extremities	Diagnosis	ICD-9-CM
45384	Phlebitis and thrombophlebitis of upper extremities, unspecified	Diagnosis	ICD-9-CM
I80.10	Phlebitis and thrombophlebitis of unspecified femoral vein	Diagnosis	ICD-10-CM
I80.11	Phlebitis and thrombophlebitis of right femoral vein	Diagnosis	ICD-10-CM
I80.12	Phlebitis and thrombophlebitis of left femoral vein	Diagnosis	ICD-10-CM
I80.13	Phlebitis and thrombophlebitis of femoral vein, bilateral	Diagnosis	ICD-10-CM
I80.201	Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremity	Diagnosis	ICD-10-CM
I80.202	Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremity	Diagnosis	ICD-10-CM
I80.203	Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateral	Diagnosis	ICD-10-CM
I80.209	Phlebitis and thrombophlebitis of unspecified deep vessels of unspecified lower extremity	Diagnosis	ICD-10-CM
I80.211	Phlebitis and thrombophlebitis of right iliac vein	Diagnosis	ICD-10-CM
I80.212	Phlebitis and thrombophlebitis of left iliac vein	Diagnosis	ICD-10-CM
I80.213	Phlebitis and thrombophlebitis of iliac vein, bilateral	Diagnosis	ICD-10-CM
I80.219	Phlebitis and thrombophlebitis of unspecified iliac vein	Diagnosis	ICD-10-CM
I80.221	Phlebitis and thrombophlebitis of right popliteal vein	Diagnosis	ICD-10-CM
I80.222	Phlebitis and thrombophlebitis of left popliteal vein	Diagnosis	ICD-10-CM
I80.223	Phlebitis and thrombophlebitis of popliteal vein, bilateral	Diagnosis	ICD-10-CM
I80.229	Phlebitis and thrombophlebitis of unspecified popliteal vein	Diagnosis	ICD-10-CM
I80.231	Phlebitis and thrombophlebitis of right tibial vein	Diagnosis	ICD-10-CM
I80.232	Phlebitis and thrombophlebitis of left tibial vein	Diagnosis	ICD-10-CM
I80.233	Phlebitis and thrombophlebitis of tibial vein, bilateral	Diagnosis	ICD-10-CM
I80.239	Phlebitis and thrombophlebitis of unspecified tibial vein	Diagnosis	ICD-10-CM
I80.291	Phlebitis and thrombophlebitis of other deep vessels of right lower extremity	Diagnosis	ICD-10-CM

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
I80.292	Phlebitis and thrombophlebitis of other deep vessels of left lower extremity	Diagnosis	ICD-10-CM
I80.293	Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral	Diagnosis	ICD-10-CM
I80.299	Phlebitis and thrombophlebitis of other deep vessels of unspecified lower extremity	Diagnosis	ICD-10-CM
I80.3	Phlebitis and thrombophlebitis of lower extremities, unspecified	Diagnosis	ICD-10-CM
I80.8	Phlebitis and thrombophlebitis of other sites	Diagnosis	ICD-10-CM
I82.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity	Diagnosis	ICD-10-CM
I82.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity	Diagnosis	ICD-10-CM
I82.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.411	Acute embolism and thrombosis of right femoral vein	Diagnosis	ICD-10-CM
I82.412	Acute embolism and thrombosis of left femoral vein	Diagnosis	ICD-10-CM
I82.413	Acute embolism and thrombosis of femoral vein, bilateral	Diagnosis	ICD-10-CM
I82.419	Acute embolism and thrombosis of unspecified femoral vein	Diagnosis	ICD-10-CM
I82.421	Acute embolism and thrombosis of right iliac vein	Diagnosis	ICD-10-CM
I82.422	Acute embolism and thrombosis of left iliac vein	Diagnosis	ICD-10-CM
I82.423	Acute embolism and thrombosis of iliac vein, bilateral	Diagnosis	ICD-10-CM
I82.429	Acute embolism and thrombosis of unspecified iliac vein	Diagnosis	ICD-10-CM
I82.431	Acute embolism and thrombosis of right popliteal vein	Diagnosis	ICD-10-CM
I82.432	Acute embolism and thrombosis of left popliteal vein	Diagnosis	ICD-10-CM
I82.433	Acute embolism and thrombosis of popliteal vein, bilateral	Diagnosis	ICD-10-CM
I82.439	Acute embolism and thrombosis of unspecified popliteal vein	Diagnosis	ICD-10-CM
I82.441	Acute embolism and thrombosis of right tibial vein	Diagnosis	ICD-10-CM
I82.442	Acute embolism and thrombosis of left tibial vein	Diagnosis	ICD-10-CM
I82.443	Acute embolism and thrombosis of tibial vein, bilateral	Diagnosis	ICD-10-CM
I82.449	Acute embolism and thrombosis of unspecified tibial vein	Diagnosis	ICD-10-CM
I82.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity	Diagnosis	ICD-10-CM
I82.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity	Diagnosis	ICD-10-CM
I82.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.499	Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.4Y9	Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity	Diagnosis	ICD-10-CM
I82.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity	Diagnosis	ICD-10-CM
I82.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.4Z9	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity	Diagnosis	ICD-10-CM
I82.A11	Acute embolism and thrombosis of right axillary vein	Diagnosis	ICD-10-CM
I82.A12	Acute embolism and thrombosis of left axillary vein	Diagnosis	ICD-10-CM
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral	Diagnosis	ICD-10-CM
I82.A19	Acute embolism and thrombosis of unspecified axillary vein	Diagnosis	ICD-10-CM
4151	Pulmonary embolism and infarction	Diagnosis	ICD-9-CM
41511	Iatrogenic pulmonary embolism and infarction	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
41512	Septic pulmonary embolism	Diagnosis	ICD-9-CM
41519	Other pulmonary embolism and infarction	Diagnosis	ICD-9-CM
I26.01	Septic pulmonary embolism with acute cor pulmonale	Diagnosis	ICD-10-CM
I26.09	Other pulmonary embolism with acute cor pulmonale	Diagnosis	ICD-10-CM
I26.90	Septic pulmonary embolism without acute cor pulmonale	Diagnosis	ICD-10-CM
I26.99	Other pulmonary embolism without acute cor pulmonale	Diagnosis	ICD-10-CM
T80.0XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter	Diagnosis	ICD-10-CM
T81.718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter	Diagnosis	ICD-10-CM
T81.72XA	Complication of vein following a procedure, not elsewhere classified, initial encounter	Diagnosis	ICD-10-CM
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter	Diagnosis	ICD-10-CM
T82.818A	Embolism due to vascular prosthetic devices, implants and grafts, initial encounter	Diagnosis	ICD-10-CM
V436	Joint replaced by other means	Diagnosis	ICD-9-CM
V4360	Unspecified joint replacement	Diagnosis	ICD-9-CM
V4361	Shoulder joint replacement	Diagnosis	ICD-9-CM
V4362	Elbow joint replacement	Diagnosis	ICD-9-CM
V4363	Wrist joint replacement	Diagnosis	ICD-9-CM
V4364	Hip joint replacement	Diagnosis	ICD-9-CM
V4365	Knee joint replacement	Diagnosis	ICD-9-CM
V4366	Ankle joint replacement	Diagnosis	ICD-9-CM
V4369	Other joint replacement	Diagnosis	ICD-9-CM
815	JOINT REPLACEMENT LOWER EXTREMITY	Procedure	ICD-9-CM
8151	TOTAL HIP REPLACEMENT	Procedure	ICD-9-CM
8152	PARTIAL HIP REPLACEMENT	Procedure	ICD-9-CM
8153	REVISION OF HIP REPLACEMENT NOS	Procedure	ICD-9-CM
8154	TOTAL KNEE REPLACEMENT	Procedure	ICD-9-CM
8155	REVISION OF KNEE REPLACEMENT NOS	Procedure	ICD-9-CM
8156	TOTAL ANKLE REPLACEMENT	Procedure	ICD-9-CM
8157	REPLACEMENT OF JOINT OF FOOT&TOE	Procedure	ICD-9-CM
8159	REV JOINT REPLCMT LOWER EXTREM NEC	Procedure	ICD-9-CM
818	ARTHROPLASTY&REPAIR SHOULDER&ELBOW	Procedure	ICD-9-CM
8180	OTHER TOTAL SHOULDER REPLACEMENT	Procedure	ICD-9-CM
8181	PARTIAL SHOULDER REPLACEMENT	Procedure	ICD-9-CM
8182	REPAIR RECURRENT DISLOC SHOULDER	Procedure	ICD-9-CM
8183	OTHER REPAIR OF SHOULDER	Procedure	ICD-9-CM
8184	TOTAL ELBOW REPLACEMENT	Procedure	ICD-9-CM
8185	OTHER REPAIR OF ELBOW	Procedure	ICD-9-CM
24363	REPLACE ELBOW JOINT	Procedure	CPT-4
27130	TOTAL HIP ARTHROPLASTY	Procedure	CPT-4
27132	TOTAL HIP ARTHROPLASTY	Procedure	CPT-4
27134	REVISE HIP JOINT REPLACEMENT	Procedure	CPT-4
27137	REVISE HIP JOINT REPLACEMENT	Procedure	CPT-4
27138	REVISE HIP JOINT REPLACEMENT	Procedure	CPT-4
27447	TOTAL KNEE ARTHROPLASTY	Procedure	CPT-4
Z96.60	Presence of unspecified orthopedic joint implant	Diagnosis	ICD-10-CM
Z96.611	Presence of right artificial shoulder joint	Diagnosis	ICD-10-CM
Z96.612	Presence of left artificial shoulder joint	Diagnosis	ICD-10-CM
Z96.619	Presence of unspecified artificial shoulder joint	Diagnosis	ICD-10-CM
Z96.621	Presence of right artificial elbow joint	Diagnosis	ICD-10-CM
Z96.622	Presence of left artificial elbow joint	Diagnosis	ICD-10-CM
Z96.629	Presence of unspecified artificial elbow joint	Diagnosis	ICD-10-CM
Z96.631	Presence of right artificial wrist joint	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Z96.632	Presence of left artificial wrist joint	Diagnosis	ICD-10-CM
Z96.639	Presence of unspecified artificial wrist joint	Diagnosis	ICD-10-CM
Z96.641	Presence of right artificial hip joint	Diagnosis	ICD-10-CM
Z96.642	Presence of left artificial hip joint	Diagnosis	ICD-10-CM
Z96.643	Presence of artificial hip joint, bilateral	Diagnosis	ICD-10-CM
Z96.649	Presence of unspecified artificial hip joint	Diagnosis	ICD-10-CM
Z96.651	Presence of right artificial knee joint	Diagnosis	ICD-10-CM
Z96.652	Presence of left artificial knee joint	Diagnosis	ICD-10-CM
Z96.653	Presence of artificial knee joint, bilateral	Diagnosis	ICD-10-CM
Z96.659	Presence of unspecified artificial knee joint	Diagnosis	ICD-10-CM
Z96.661	Presence of right artificial ankle joint	Diagnosis	ICD-10-CM
Z96.662	Presence of left artificial ankle joint	Diagnosis	ICD-10-CM
Z96.669	Presence of unspecified artificial ankle joint	Diagnosis	ICD-10-CM
Z96.691	Finger-joint replacement of right hand	Diagnosis	ICD-10-CM
Z96.692	Finger-joint replacement of left hand	Diagnosis	ICD-10-CM
Z96.693	Finger-joint replacement, bilateral	Diagnosis	ICD-10-CM
Z96.698	Presence of other orthopedic joint implants	Diagnosis	ICD-10-CM
Z96.7	Presence of other bone and tendon implants	Diagnosis	ICD-10-CM
ORQE0ZZ	Repair Right Sternoclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORQE3ZZ	Repair Right Sternoclavicular Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQE4ZZ	Repair Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQEXZZ	Repair Right Sternoclavicular Joint, External Approach	Procedure	ICD-10-PCS
ORQF0ZZ	Repair Left Sternoclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORQF3ZZ	Repair Left Sternoclavicular Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQF4ZZ	Repair Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQFXZZ	Repair Left Sternoclavicular Joint, External Approach	Procedure	ICD-10-PCS
ORQG0ZZ	Repair Right Acromioclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORQG3ZZ	Repair Right Acromioclavicular Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQG4ZZ	Repair Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQGXZZ	Repair Right Acromioclavicular Joint, External Approach	Procedure	ICD-10-PCS
ORQH0ZZ	Repair Left Acromioclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORQH3ZZ	Repair Left Acromioclavicular Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQH4ZZ	Repair Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQHXZZ	Repair Left Acromioclavicular Joint, External Approach	Procedure	ICD-10-PCS
ORQJ0ZZ	Repair Right Shoulder Joint, Open Approach	Procedure	ICD-10-PCS
ORQJ3ZZ	Repair Right Shoulder Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQJ4ZZ	Repair Right Shoulder Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQJXZZ	Repair Right Shoulder Joint, External Approach	Procedure	ICD-10-PCS
ORQK0ZZ	Repair Left Shoulder Joint, Open Approach	Procedure	ICD-10-PCS
ORQK3ZZ	Repair Left Shoulder Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQK4ZZ	Repair Left Shoulder Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQKXZZ	Repair Left Shoulder Joint, External Approach	Procedure	ICD-10-PCS
ORQL0ZZ	Repair Right Elbow Joint, Open Approach	Procedure	ICD-10-PCS
ORQL3ZZ	Repair Right Elbow Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQL4ZZ	Repair Right Elbow Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQLXZZ	Repair Right Elbow Joint, External Approach	Procedure	ICD-10-PCS
ORQM0ZZ	Repair Left Elbow Joint, Open Approach	Procedure	ICD-10-PCS
ORQM3ZZ	Repair Left Elbow Joint, Percutaneous Approach	Procedure	ICD-10-PCS
ORQM4ZZ	Repair Left Elbow Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORQMXZZ	Repair Left Elbow Joint, External Approach	Procedure	ICD-10-PCS
ORRE07Z	Replacement of Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRE0JZ	Replacement of Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
ORRE0KZ	Replacement of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRF07Z	Replacement of Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRF0JZ	Replacement of Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRF0KZ	Replacement of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRG07Z	Replacement of Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRG0JZ	Replacement of Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRG0KZ	Replacement of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRH07Z	Replacement of Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRH0JZ	Replacement of Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRH0KZ	Replacement of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRJ07Z	Replacement of Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRJ0J6	Replacement of Right Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	Procedure	ICD-10-PCS
ORRJ0J7	Replacement of Right Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	Procedure	ICD-10-PCS
ORRJ0JZ	Replacement of Right Shoulder Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRJ0KZ	Replacement of Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRK07Z	Replacement of Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRK0J6	Replacement of Left Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	Procedure	ICD-10-PCS
ORRK0J7	Replacement of Left Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	Procedure	ICD-10-PCS
ORRK0JZ	Replacement of Left Shoulder Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRK0KZ	Replacement of Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRL07Z	Replacement of Right Elbow Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRL0JZ	Replacement of Right Elbow Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRL0KZ	Replacement of Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRM07Z	Replacement of Left Elbow Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORRM0JZ	Replacement of Left Elbow Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORRM0KZ	Replacement of Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORSE04Z	Reposition Right Sternoclavicular Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSE0ZZ	Reposition Right Sternoclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORSF04Z	Reposition Left Sternoclavicular Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSF0ZZ	Reposition Left Sternoclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORSG04Z	Reposition Right Acromioclavicular Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSG0ZZ	Reposition Right Acromioclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORSH04Z	Reposition Left Acromioclavicular Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSH0ZZ	Reposition Left Acromioclavicular Joint, Open Approach	Procedure	ICD-10-PCS
ORSJ04Z	Reposition Right Shoulder Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSJ0ZZ	Reposition Right Shoulder Joint, Open Approach	Procedure	ICD-10-PCS
ORSK04Z	Reposition Left Shoulder Joint with Internal Fixation Device, Open Approach	Procedure	ICD-10-PCS
ORSK0ZZ	Reposition Left Shoulder Joint, Open Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
ORUE07Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUE0JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUE0KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUE37Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUE3JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUE3KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUE47Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUE4JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUE4KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUF07Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUF0JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUF0KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUF37Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUF3JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUF3KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUF47Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUF4JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUF4KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUG07Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUG0JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUG0KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUG37Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUG3JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUG3KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUG47Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUG4JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUG4KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUH07Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUH0JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
ORUH0KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUH37Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUH3JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUH3KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUH47Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUH4JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUH4KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUJ07Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUJ0JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUJ0KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUJ37Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUJ3JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUJ3KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUJ47Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUJ4JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUJ4KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUK07Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUK0JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUK0KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUK37Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUK3JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUK3KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUK47Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUK4JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUK4KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUL07Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUL0JZ	Supplement Right Elbow Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUL0KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUL37Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUL3JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUL3KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUL47Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
ORUL4JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUL4KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUM07Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUM0JZ	Supplement Left Elbow Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
ORUM0KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
ORUM37Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUM3JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUM3KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
ORUM47Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUM4JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
ORUM4KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSR9019	Replacement of Right Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR901A	Replacement of Right Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR901Z	Replacement of Right Hip Joint with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSR9029	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR902A	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR902Z	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSR9039	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR903A	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR903Z	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSR9049	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR904A	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR904Z	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSR907Z	Replacement of Right Hip Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSR90J9	Replacement of Right Hip Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR90JA	Replacement of Right Hip Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR90JZ	Replacement of Right Hip Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSR90KZ	Replacement of Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA009	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRA00A	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRA00Z	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA019	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSRA01A	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRA01Z	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA039	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRA03A	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRA03Z	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA07Z	Replacement of Right Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA0J9	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRA0JA	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRA0JZ	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRA0KZ	Replacement of Right Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB019	Replacement of Left Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB01A	Replacement of Left Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB01Z	Replacement of Left Hip Joint with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB029	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB02A	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB02Z	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB039	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB03A	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB03Z	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB049	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB04A	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB04Z	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB07Z	Replacement of Left Hip Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB0J9	Replacement of Left Hip Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB0JA	Replacement of Left Hip Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB0JZ	Replacement of Left Hip Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRB0KZ	Replacement of Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC07Z	Replacement of Right Knee Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC0J9	Replacement of Right Knee Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC0JA	Replacement of Right Knee Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRC0JZ	Replacement of Right Knee Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC0KZ	Replacement of Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSRC0L9	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC0LA	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRC0LZ	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD07Z	Replacement of Left Knee Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD0J9	Replacement of Left Knee Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD0JA	Replacement of Left Knee Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD0JZ	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD0KZ	Replacement of Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD0L9	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD0LA	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD0LZ	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE009	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRE00A	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRE00Z	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE019	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRE01A	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRE01Z	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE039	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRE03A	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRE03Z	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE07Z	Replacement of Left Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE0J9	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRE0JA	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRE0JZ	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE0KZ	Replacement of Left Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRF07Z	Replacement of Right Ankle Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRF0J9	Replacement of Right Ankle Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRF0JA	Replacement of Right Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRF0JZ	Replacement of Right Ankle Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRF0KZ	Replacement of Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRG07Z	Replacement of Left Ankle Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRG0J9	Replacement of Left Ankle Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRG0JA	Replacement of Left Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSRG0JZ	Replacement of Left Ankle Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRG0KZ	Replacement of Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRH07Z	Replacement of Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRH0JZ	Replacement of Right Tarsal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRH0KZ	Replacement of Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRJ07Z	Replacement of Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRJ0JZ	Replacement of Left Tarsal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRJ0KZ	Replacement of Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRK07Z	Replacement of Right Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRK0JZ	Replacement of Right Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRK0KZ	Replacement of Right Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRL07Z	Replacement of Left Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRL0JZ	Replacement of Left Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRL0KZ	Replacement of Left Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRM07Z	Replacement of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRM0JZ	Replacement of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRM0KZ	Replacement of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRN07Z	Replacement of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRN0JZ	Replacement of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRN0KZ	Replacement of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRP07Z	Replacement of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRP0JZ	Replacement of Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRP0KZ	Replacement of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRQ07Z	Replacement of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRQ0JZ	Replacement of Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRQ0KZ	Replacement of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRR019	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRR01A	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRR01Z	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRR039	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRR03A	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRR03Z	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSRR07Z	Replacement of Right Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRR0J9	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRR0JA	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRR0JZ	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRR0KZ	Replacement of Right Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRS019	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRS01A	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRS01Z	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRS039	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRS03A	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRS03Z	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRS07Z	Replacement of Left Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRS0J9	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRS0JA	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRS0JZ	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRS0KZ	Replacement of Left Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRT07Z	Replacement of Right Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRT0J9	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRT0JA	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRT0JZ	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRT0KZ	Replacement of Right Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRU07Z	Replacement of Left Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRU0J9	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRU0JA	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRU0JZ	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRU0KZ	Replacement of Left Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSRV07Z	Replacement of Right Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRV0J9	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRV0JA	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRV0JZ	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRV0KZ	Replacement of Right Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRW07Z	Replacement of Left Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRW0J9	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRW0JA	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRW0JZ	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRW0KZ	Replacement of Left Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSW90JZ	Revision of Synthetic Substitute in Right Hip Joint, Open Approach	Procedure	ICD-10-PCS
OSW93JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSW94JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWA0JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Open Approach	Procedure	ICD-10-PCS
OSWA3JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWA4JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWB0JZ	Revision of Synthetic Substitute in Left Hip Joint, Open Approach	Procedure	ICD-10-PCS
OSWB3JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWB4JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWC0JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Open Approach	Procedure	ICD-10-PCS
OSWC0JZ	Revision of Synthetic Substitute in Right Knee Joint, Open Approach	Procedure	ICD-10-PCS
OSWC3JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWC3JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWC4JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWC4JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWD0JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Open Approach	Procedure	ICD-10-PCS
OSWD0JZ	Revision of Synthetic Substitute in Left Knee Joint, Open Approach	Procedure	ICD-10-PCS
OSWD3JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWD3JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWD4JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWD4JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWE0JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Open Approach	Procedure	ICD-10-PCS
OSWE3JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWE4JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWF0JZ	Revision of Synthetic Substitute in Right Ankle Joint, Open Approach	Procedure	ICD-10-PCS
OSWF3JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
OSWF4JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWG0JZ	Revision of Synthetic Substitute in Left Ankle Joint, Open Approach	Procedure	ICD-10-PCS
OSWG3JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWG4JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWH0JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Open Approach	Procedure	ICD-10-PCS
OSWH3JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWH4JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWJ0JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Open Approach	Procedure	ICD-10-PCS
OSWJ3JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWJ4JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWK0JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Open Approach	Procedure	ICD-10-PCS
OSWK3JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWK4JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWL0JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Open Approach	Procedure	ICD-10-PCS
OSWL3JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWL4JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWM0JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	Procedure	ICD-10-PCS
OSWM3JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWM4JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWN0JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	Procedure	ICD-10-PCS
OSWN3JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWN4JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWP0JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Open Approach	Procedure	ICD-10-PCS
OSWP3JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWP4JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWQ0JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Open Approach	Procedure	ICD-10-PCS
OSWQ3JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	Procedure	ICD-10-PCS
OSWQ4JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWR0JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Open Approach	Procedure	ICD-10-PCS
OSWR3JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWR4JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWS0JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Open Approach	Procedure	ICD-10-PCS
OSWS3JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWS4JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSWT0JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Open Approach	Procedure	ICD-10-PCS
OSWT3JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Approach	Procedure	ICD-10-PCS
OSWT4JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix E. List of 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, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
0SWU0JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Open Approach	Procedure	ICD-10-PCS
0SWU3JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Approach	Procedure	ICD-10-PCS
0SWU4JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0SWV0JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Open Approach	Procedure	ICD-10-PCS
0SWV3JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Approach	Procedure	ICD-10-PCS
0SWV4JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0SWW0JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Open Approach	Procedure	ICD-10-PCS
0SWW3JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Approach	Procedure	ICD-10-PCS
0SWW4JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
Steroid Treatment for Cutaneous Small-Vessel Vasculitis	
alclometasone dipropionate	Acloivate
alclometasone dipropionate	alclometasone
amcinonide	amcinonide
betamethasone	Celestone
betamethasone dipropionate	betamethasone dipropionate
betamethasone dipropionate	betamethasone, augmented
betamethasone dipropionate	Diprosone
betamethasone dipropionate	Sernivo
betamethasone dipropionate/propylene glycol	betamethasone, augmented
betamethasone dipropionate/propylene glycol	Diprolene
betamethasone dipropionate/propylene glycol	Diprolene AF
betamethasone valerate	betamethasone valerate
betamethasone valerate	Beta-Val
betamethasone valerate	Luxiq
clobetasol propionate	clobetasol
clobetasol propionate	Clobex
clobetasol propionate	Clodan
clobetasol propionate	Cormax
clobetasol propionate	Embeline
clobetasol propionate	Impoyz
clobetasol propionate	Olux
clobetasol propionate	Temovate
clobetasol propionate/calcipotriene	clobetasol-calcipotriene
clobetasol propionate/coal tar	Clobeta+Plus
clobetasol propionate/coal tar	clobetasol-coal tar
clobetasol propionate/emollient base	clobetasol-emollient
clobetasol propionate/emollient base	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
clobetasol propionate/emollient base	Tovet Emollient
clobetasol propionate/emollient combination no.65	Tovet Kit
clobetasol propionate/levocetirizine dihydrochloride	clobetasol-levocetirizine
clobetasol propionate/niacinamide	clobetasol-niacinamide
clobetasol propionate/skin cleanser combination no.28	Clodan Kit
clocortolone pivalate	clocortolone pivalate
clocortolone pivalate	Cloderm
cortisone acetate	cortisone
deflazacort	Emflaza
desonide	Desonate
desonide	desonide
desonide	DesOwen
desonide	Tridesilon
desonide	Verdeso
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	desoximetasone
desoximetasone	Topicort
dexamethasone	Baycadron
dexamethasone	Decadron
dexamethasone	Dexabliss
dexamethasone	dexamethasone
dexamethasone	Dexamethasone IntenSol

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dxevo
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	TaperDex
dexamethasone	Zema-Pak
dexamethasone	ZoDex
dexamethasone	ZonaCort
diflorasone diacetate	ApexiCon
diflorasone diacetate	diflorasone
diflorasone diacetate	Psorcon
diflorasone diacetate/emollient base	ApexiCon E
diphenhydramine HCl/hydrocortisone	HC Derma-Pax
fluocinolone acetonide	Capex
fluocinolone acetonide	Derma-Smoothe/FS Body Oil
fluocinolone acetonide	Derma-Smoothe/FS Eczema
fluocinolone acetonide	fluocinolone
fluocinolone acetonide	Synalar
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/skin cleanser comb no.28	Synalar TS
fluocinolone acetonide/skin cleanser no.10/silicone, tape	Xilapak
fluocinolone acetonide/urea/silicone, adhesive	Noxipak
fluocinonide	fluocinonide
fluocinonide	Lidex
fluocinonide	Vanos
fluocinonide/emollient base	Fluocinonide-E
fluocinonide/emollient base	fluocinonide-emollient
fluocinonide/silicone, adhesive	Fluovix
flurandrenolide	Cordran
flurandrenolide	Cordran SP
flurandrenolide	Cordran Tape Large Roll
flurandrenolide	Cordran Tape Small Roll
flurandrenolide	flurandrenolide
flurandrenolide	Nolix
fluticasone propionate	Beser
fluticasone propionate	Cutivate
fluticasone propionate	fluticasone propionate
fluticasone propionate/emollient combination no.65	Beser Kit
halcinonide	halcinonide
halcinonide	Halog
halobetasol propionate	Bryhali
halobetasol propionate	halobetasol propionate
halobetasol propionate	Lexette
halobetasol propionate	Ultravate
halobetasol propionate/ammonium lactate	Halac
halobetasol propionate/ammonium lactate	Halonate
halobetasol propionate/ammonium lactate	Halonate Pac
halobetasol propionate/ammonium lactate	Ultravate PAC
halobetasol propionate/lactic acid	Ultravate X
hydrocortisone	Advanced Allergy Collect Kit
hydrocortisone	Ala-Cort
hydrocortisone	Ala-Scalp
hydrocortisone	Anti-Itch (HC)

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
hydrocortisone	Anusol-HC
hydrocortisone	Aquanil HC
hydrocortisone	Beta-HC
hydrocortisone	Cortaid
hydrocortisone	Cortaid FastStick Max St
hydrocortisone	Cortaid Intensive Therapy
hydrocortisone	Cortaid Maximum Strength
hydrocortisone	Cortef
hydrocortisone	Corticool
hydrocortisone	Cortisone (hydrocortisone)
hydrocortisone	Cortisone Cooling
hydrocortisone	Cortizone-10
hydrocortisone	Cortizone-10 Plus
hydrocortisone	Dermarest Eczema (hydrocort)
hydrocortisone	Eczema Anti-Itch
HYDROCORTISONE	First-Hydrocortisone
hydrocortisone	hydrocortisone
hydrocortisone	Hydrocortisone Plus
hydrocortisone	Hydrocortisone Plus 12
hydrocortisone	Hydrocream
hydrocortisone	HydroSkin
hydrocortisone	ITCH-X
hydrocortisone	Itch-X HC
hydrocortisone	Neosporin Anti-Itch
hydrocortisone	Noble Formula HC
hydrocortisone	Obagi Nu-Derm Tolereen
hydrocortisone	Preparation H Hydrocortisone
hydrocortisone	Proctocort
hydrocortisone	Procto-Med HC
hydrocortisone	Procto-Pak
hydrocortisone	Proctosol HC
hydrocortisone	Proctozone-HC
hydrocortisone	Recort Plus
hydrocortisone	Sarnol-HC
hydrocortisone	Scalacort
hydrocortisone	Scalp Relief
hydrocortisone	Scalpicin Anti-Itch
hydrocortisone	Soothing Care (hydrocortisone)
hydrocortisone	Texacort
hydrocortisone acetate	Cortaid Maximum Strength
hydrocortisone acetate	hydrocortisone acetate
hydrocortisone acetate	Medi-Cortisone
hydrocortisone acetate	MiCort-HC
hydrocortisone acetate	Vanicream HC
hydrocortisone acetate/aloe vera	Cortaid with Aloe
hydrocortisone acetate/aloe vera	Cortalo
hydrocortisone acetate/aloe vera	hydrocortisone acet-aloe vera
hydrocortisone acetate/aloe vera	Hydrocortisone Acetate-Aloe
hydrocortisone acetate/aloe vera	Nucort
hydrocortisone acetate/aloe vera	Nuzon
hydrocortisone acetate/pramoxine HCl	Analpram-HC
hydrocortisone acetate/pramoxine HCl	Epifoam
hydrocortisone acetate/pramoxine HCl	hydrocortisone-pramoxine
hydrocortisone acetate/pramoxine HCl	Mezparox-HC
hydrocortisone acetate/pramoxine HCl	Novacort
hydrocortisone acetate/pramoxine HCl	Pramosone
hydrocortisone acetate/pramoxine HCl/aloe polysaccharide	Novacort (with aloe)

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
hydrocortisone acetate/pramoxine HCl/emollient base	Pramosone E
hydrocortisone acetate/urea	CARMOL HC
hydrocortisone acetate/urea	U-Cort
hydrocortisone butyrate	hydrocortisone butyrate
hydrocortisone butyrate	Locoid
hydrocortisone butyrate/emollient base	hydrocortisone butyr-emollient
hydrocortisone butyrate/emollient base	Locoid Lipocream
hydrocortisone probutate	Pandel
hydrocortisone valerate	hydrocortisone valerate
hydrocortisone valerate	Westcort
hydrocortisone/aloe vera	Anti-Itch(hydrocortisone)-Aloe
hydrocortisone/aloe vera	Cortisone with Aloe
hydrocortisone/aloe vera	Cortizone-10 with aloe
hydrocortisone/aloe vera	Hydrocortisone Plus
hydrocortisone/aloe vera	hydrocortisone-aloe vera
hydrocortisone/aloe vera	Hydroskin with Aloe
hydrocortisone/aloe vera/vitamin E acetate/vitamins A and D	Anti-Itch (HC) with Aloe-Vit E
hydrocortisone/aloe vera/vitamin E acetate/vitamins A and D	Anti-Itch Plus
hydrocortisone/colloidal oatmeal/aloe/vitamin E	Anti-Itch (HC) with Oatmeal
hydrocortisone/colloidal oatmeal/aloe/vitamin E	Aveeno Anti-Itch (hydrocortsn)
hydrocortisone/emollient combination no.45	Pediaderm HC
hydrocortisone/mineral oil/petrolatum,white	hydrocortisone-min oil-wht pet
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
lidocaine HCl/hydrocortisone acetate	LidaMantle HC
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
lidocaine HCl/hydrocortisone acetate	Lidocaine-HC
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Meprolone Unipak
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
mometasone furoate	Elocon
mometasone furoate	mometasone
mometasone furoate/ammonium lactate	Momexin
mometasone furoate/ammonium lactate	Quinosone
mometasone furoate/dimethicone	Quinixil
prednicarbate	Dermatop
prednicarbate	prednicarbate
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone	prednisolone
prednisolone	Prelone
prednisolone acetate	Flo-Pred
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisolone sodium phosphate	Veripred 20
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred Plus
prednisone	Deltasone
prednisone	prednisone
prednisone	Prednisone Intensol
prednisone	Rayos

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
prednisone	Sterapred
triamcinolone acetonide	Kenalog
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide	Trianex
triamcinolone acetonide	Triderm
triamcinolone acetonide/dimethicone	Ellzia Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermacinRx SilaPak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaSilkRx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaWerx SDS
triamcinolone acetonide/silicone, adhesive	NuTriaRx
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	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/niacinamide	triamcinolone-niacinamide
triamcinolone acetonide/silicones	DermacinRx SilaZone
triamcinolone acetonide/silicones	Dermazone
triamcinolone acetonide/silicones	SilaLite Pak
triamcinolone acetonide/silicones	Silazone-II

Treatment for Select Autoimmune Disorders

abatacept	Orencia
abatacept	Orencia ClickJect
abatacept/maltose	Orencia (with maltose)
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-UC-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF) Pen Crohns-UC-HS
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
azathioprine	Azasan
azathioprine	azathioprine
azathioprine	azathioprine (bulk)
azathioprine	Imuran
azathioprine sodium	azathioprine sodium
botulism immune globulin, human	BabyBIG
certolizumab pegol	Cimzia
certolizumab pegol	Cimzia Powder for Reconst
certolizumab pegol	Cimzia Starter Kit
colchicine	colchicine
colchicine	colchicine (bulk)
colchicine	Colcrys
colchicine	Gloperba
colchicine	Mitigare
cyclophosphamide	cyclophosphamide
cyclophosphamide	cyclophosphamide (bulk)
cyclosporine	Cequa
cyclosporine	cyclosporine
cyclosporine	cyclosporine (bulk)

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
cyclosporine	Restasis
cyclosporine	Restasis MultiDose
cyclosporine	Sandimmune
cytomegalovirus immune globulin (human)	CytoGam
dapsone	Aczone
dapsone	dapsone
dapsone	dapsone (bulk)
dexamethasone	Baycadron
dexamethasone	Decadron
dexamethasone	Dexabliss
dexamethasone	dexamethasone
dexamethasone	Dexamethasone Intensol
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dextenza
dexamethasone	Dxevo
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	Maxidex
dexamethasone	Ozurdex
dexamethasone	TaperDex
dexamethasone	Zema-Pak
dexamethasone	ZoDex
dexamethasone	ZonaCort
dexamethasone acetate	dexamethasone acetate (bulk)
dexamethasone isonicotinate	dexamethasone isonic (bulk)
dexamethasone sodium phosphate	AK-Dex
dexamethasone sodium phosphate	dexamethasone sod phos (bulk)
dexamethasone sodium phosphate	dexamethasone sodium phosphate
dexamethasone sodium phosphate	Dexasol
dexamethasone sodium phosphate	Dexonto
dexamethasone sodium phosphate	ReadySharp dexamethasone
etanercept	Enbrel
etanercept	Enbrel Mini
etanercept	Enbrel SureClick
golimumab	Simponi
golimumab	Simponi ARIA
immune globulin,gamm(IgG)/glycine/glucose/IgA 0 to 50 mcg/mL	Gammagard S/D
immune globulin,gamm(IgG)/glycine/glucose/IgA 0 to 50 mcg/mL	Gammagard S-D (IgA < 1 mcg/mL)
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	Bivigam
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	Gamunex
immune globulin,gamm(IgG)/maltose/IgA greater than 50 mcg/mL	Octagam
immune globulin,gamm(IgG)/sorbitol/glycin/IgA 0 to 50 mcg/mL	Gammaplex (with sorbitol)
immune globulin,gamm(IgG)/sucrose/IgA greater than 50 mcg/mL	Carimune NF Nanofiltered
immune globulin,gamma (IgG)/glycine/IgA 0 to 50 mcg/mL	Gammaplex
immune globulin,gamma (IgG)/proline/IgA 0 to 50 mcg/mL	Privigen
immune globulin,gamma (IgG)/sorbitol/IgA 0 to 50 mcg/mL	Flebogamma DIF
immune globulin,gamma (IgG)-slra human	Asceniv
immune globulin,gamma(IgG)	Flebogamma
immune globulin,gamma(IgG)-ifas human/glycine	Panzyga
infliximab	Remicade
leflunomide	Arava
leflunomide	leflunomide
methotrexate	methotrexate (bulk)
methotrexate	Xatmep
methotrexate sodium	Methotrexate (Anti-Rheumatic)

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
methotrexate sodium	methotrexate sodium
methotrexate sodium	Rheumatrex
methotrexate sodium	Trexall
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Meprolone Unipak
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80
methylprednisolone acetate	ReadySharp Methylprednisolone
methylprednisolone sodium succinate	A-Methapred
methylprednisolone sodium succinate	methylprednisol sod suc(bulk)
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate	Solu-Medrol
mycophenolate mofetil	CellCept
mycophenolate mofetil	mycophenolate mofetil
mycophenolate mofetil HCl	CellCept Intravenous
mycophenolate mofetil HCl	mycophenolate mofetil (HCl)
mycophenolate sodium	mycophenolate sodium
mycophenolate sodium	Myfortic
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone	prednisolone
prednisolone	prednisolone (bulk)
prednisolone	Prelone
prednisolone acetate	Flo-Pred
prednisolone acetate	Omnipred
prednisolone acetate	Pred Forte
prednisolone acetate	Pred Mild
prednisolone acetate	prednisolone acetate
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	Prednisol
prednisolone sodium phosphate	prednisolone sod phos (bulk)
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisolone sodium phosphate	Veripred 20
prednisone	Deltasone
prednisone	prednisone
prednisone	prednisone (bulk)
prednisone	Prednisone Intensol
prednisone	Rayos
prednisone	Sterapred
rituximab	Rituxan
tocilizumab	Actemra
tocilizumab	Actemra ACTPen

Chemotherapy Treatment

busulfan	busulfan
busulfan	Busulfex
busulfan	Myleran
cyclophosphamide	cyclophosphamide
cyclophosphamide	cyclophosphamide (bulk)

Appendix F. List of Generic and Brand Names of Medical Products Used to Define Exclusion Criteria in this Request

Generic Name	Brand Name
levamisole HCl	levamisole (bulk)
methotrexate	methotrexate (bulk)
methotrexate	Xatmep
methotrexate sodium	methotrexate sodium
methotrexate sodium	Trexall
methotrexate sodium/PF	methotrexate sodium (PF)
tamoxifen citrate	Soltamox
tamoxifen citrate	tamoxifen

Appendix G. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Event Outcomes in this Request

Code	Description	Care Setting*	Code Category	Code Type
Cutaneous Small-Vessel Vasculitis				
287.0	Allergic purpura	AV, OA, or ED	Diagnosis	ICD-9-CM
446.2	Hypersensitivity angiitis	AV, OA, or ED	Diagnosis	ICD-9-CM
446.20	Unspecified hypersensitivity angiitis	AV, OA, or ED	Diagnosis	ICD-9-CM
446.29	Other specified hypersensitivity angiitis	AV, OA, or ED	Diagnosis	ICD-9-CM
709.1	Vascular disorder of skin	AV, OA, or ED	Diagnosis	ICD-9-CM
D69.0	Allergic purpura	AV, OA, or ED	Diagnosis	ICD-10-CM
L95.0	Livedoid vasculitis	AV, OA, or ED	Diagnosis	ICD-10-CM
L95.8	Other vasculitis limited to the skin	AV, OA, or ED	Diagnosis	ICD-10-CM
L95.9	Vasculitis limited to the skin, unspecified	AV, OA, or ED	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angiitis	AV, OA, or ED	Diagnosis	ICD-10-CM

*Ambulatory visit (AV), other ambulatory visit (OA), or emergency department care setting.

Appendix H. List of Generic and Brand Names of Medical Products Used to Define Event Outcomes in this Request

Generic Name	Brand Name
Steroid Treatment for Cutaneous Small-Vessel Vasculitis	
alclometasone dipropionate	Acloivate
alclometasone dipropionate	alclometasone
amcinonide	amcinonide
betamethasone	Celestone
betamethasone dipropionate	betamethasone dipropionate
betamethasone dipropionate	betamethasone, augmented
betamethasone dipropionate	Diprosone
betamethasone dipropionate	Sernivo
betamethasone dipropionate/propylene glycol	betamethasone, augmented
betamethasone dipropionate/propylene glycol	Diprolene
betamethasone dipropionate/propylene glycol	Diprolene AF
betamethasone valerate	betamethasone valerate
betamethasone valerate	Beta-Val
betamethasone valerate	Luxiq
clobetasol propionate	clobetasol
clobetasol propionate	Clobex
clobetasol propionate	Clodan
clobetasol propionate	Cormax
clobetasol propionate	Embeline
clobetasol propionate	Impoyz
clobetasol propionate	Olux
clobetasol propionate	Temovate
clobetasol propionate/calcipotriene	clobetasol-calcipotriene
clobetasol propionate/coal tar	Clobeta+Plus
clobetasol propionate/coal tar	clobetasol-coal tar
clobetasol propionate/emollient base	clobetasol-emollient
clobetasol propionate/emollient base	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
clobetasol propionate/emollient base	Tovet Emollient
clobetasol propionate/emollient combination no.65	Tovet Kit
clobetasol propionate/levocetirizine dihydrochloride	clobetasol-levocetirizine
clobetasol propionate/niacinamide	clobetasol-niacinamide
clobetasol propionate/skin cleanser combination no.28	Clodan Kit
clocortolone pivalate	clocortolone pivalate
clocortolone pivalate	Cloderm
cortisone acetate	cortisone
deflazacort	Emflaza
desonide	Desonate
desonide	desonide
desonide	DesOwen
desonide	Tridesilon
desonide	Verdeso
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	desoximetasone
desoximetasone	Topicort
dexamethasone	Baycadron
dexamethasone	Decadron
dexamethasone	Dexabliss
dexamethasone	dexamethasone
dexamethasone	Dexamethasone IntenSol

Appendix H. List of Generic and Brand Names of Medical Products Used to Define Event Outcomes in this Request

Generic Name	Brand Name
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dxevo
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	TaperDex
dexamethasone	Zema-Pak
dexamethasone	ZoDex
dexamethasone	ZonaCort
diflorasone diacetate	ApexiCon
diflorasone diacetate	diflorasone
diflorasone diacetate	Psorcon
diflorasone diacetate/emollient base	ApexiCon E
diphenhydramine HCl/hydrocortisone	HC Derma-Pax
fluocinolone acetonide	Capex
fluocinolone acetonide	Derma-Smoothe/FS Body Oil
fluocinolone acetonide	Derma-Smoothe/FS Eczema
fluocinolone acetonide	fluocinolone
fluocinolone acetonide	Synalar
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/skin cleanser comb no.28	Synalar TS
fluocinolone acetonide/skin cleanser no.10/silicone, tape	Xilapak
fluocinolone acetonide/urea/silicone, adhesive	Noxipak
fluocinonide	fluocinonide
fluocinonide	Lidex
fluocinonide	Vanos
fluocinonide/emollient base	Fluocinonide-E
fluocinonide/emollient base	fluocinonide-emollient
fluocinonide/silicone, adhesive	Fluovix
flurandrenolide	Cordran
flurandrenolide	Cordran SP
flurandrenolide	Cordran Tape Large Roll
flurandrenolide	Cordran Tape Small Roll
flurandrenolide	flurandrenolide
flurandrenolide	Nolix
fluticasone propionate	Beser
fluticasone propionate	Cutivate
fluticasone propionate	fluticasone propionate
fluticasone propionate/emollient combination no.65	Beser Kit
halcinonide	halcinonide
halcinonide	Halog
halobetasol propionate	Bryhali
halobetasol propionate	halobetasol propionate
halobetasol propionate	Lexette
halobetasol propionate	Ultravate
halobetasol propionate/ammonium lactate	Halac
halobetasol propionate/ammonium lactate	Halonate
halobetasol propionate/ammonium lactate	Halonate Pac
halobetasol propionate/ammonium lactate	Ultravate PAC
halobetasol propionate/lactic acid	Ultravate X
hydrocortisone	Advanced Allergy Collect Kit
hydrocortisone	Ala-Cort
hydrocortisone	Ala-Scalp
hydrocortisone	Anti-Itch (HC)

Appendix H. List of Generic and Brand Names of Medical Products Used to Define Event Outcomes in this Request

Generic Name	Brand Name
hydrocortisone	Anusol-HC
hydrocortisone	Aquanil HC
hydrocortisone	Beta-HC
hydrocortisone	Cortaid
hydrocortisone	Cortaid FastStick Max St
hydrocortisone	Cortaid Intensive Therapy
hydrocortisone	Cortaid Maximum Strength
hydrocortisone	Cortef
hydrocortisone	Corticool
hydrocortisone	Cortisone (hydrocortisone)
hydrocortisone	Cortisone Cooling
hydrocortisone	Cortizone-10
hydrocortisone	Cortizone-10 Plus
hydrocortisone	Dermarest Eczema (hydrocort)
hydrocortisone	Eczema Anti-Itch
HYDROCORTISONE	First-Hydrocortisone
hydrocortisone	hydrocortisone
hydrocortisone	Hydrocortisone Plus
hydrocortisone	Hydrocortisone Plus 12
hydrocortisone	Hydrocream
hydrocortisone	HydroSkin
hydrocortisone	ITCH-X
hydrocortisone	Itch-X HC
hydrocortisone	Neosporin Anti-Itch
hydrocortisone	Noble Formula HC
hydrocortisone	Obagi Nu-Derm Tolereen
hydrocortisone	Preparation H Hydrocortisone
hydrocortisone	Proctocort
hydrocortisone	Procto-Med HC
hydrocortisone	Procto-Pak
hydrocortisone	Proctosol HC
hydrocortisone	Proctozone-HC
hydrocortisone	Recort Plus
hydrocortisone	Sarnol-HC
hydrocortisone	Scalacort
hydrocortisone	Scalp Relief
hydrocortisone	Scalpicin Anti-Itch
hydrocortisone	Soothing Care (hydrocortisone)
hydrocortisone	Texacort
hydrocortisone acetate	Cortaid Maximum Strength
hydrocortisone acetate	hydrocortisone acetate
hydrocortisone acetate	Medi-Cortisone
hydrocortisone acetate	MiCort-HC
hydrocortisone acetate	Vanicream HC
hydrocortisone acetate/aloe vera	Cortaid with Aloe
hydrocortisone acetate/aloe vera	Cortalo
hydrocortisone acetate/aloe vera	hydrocortisone acet-aloe vera
hydrocortisone acetate/aloe vera	Hydrocortisone Acetate-Aloe
hydrocortisone acetate/aloe vera	Nucort
hydrocortisone acetate/aloe vera	Nuzon
hydrocortisone acetate/pramoxine HCl	Analpram-HC
hydrocortisone acetate/pramoxine HCl	Epifoam
hydrocortisone acetate/pramoxine HCl	hydrocortisone-pramoxine
hydrocortisone acetate/pramoxine HCl	Mezparox-HC
hydrocortisone acetate/pramoxine HCl	Novacort
hydrocortisone acetate/pramoxine HCl	Pramosone
hydrocortisone acetate/pramoxine HCl/aloe polysaccharide	Novacort (with aloe)

Appendix H. List of Generic and Brand Names of Medical Products Used to Define Event Outcomes in this Request

Generic Name	Brand Name
hydrocortisone acetate/pramoxine HCl/emollient base	Pramosone E
hydrocortisone acetate/urea	CARMOL HC
hydrocortisone acetate/urea	U-Cort
hydrocortisone butyrate	hydrocortisone butyrate
hydrocortisone butyrate	Locoid
hydrocortisone butyrate/emollient base	hydrocortisone butyr-emollient
hydrocortisone butyrate/emollient base	Locoid Lipocream
hydrocortisone probutate	Pandel
hydrocortisone valerate	hydrocortisone valerate
hydrocortisone valerate	Westcort
hydrocortisone/aloe vera	Anti-Itch(hydrocortisone)-Aloe
hydrocortisone/aloe vera	Cortisone with Aloe
hydrocortisone/aloe vera	Cortizone-10 with aloe
hydrocortisone/aloe vera	Hydrocortisone Plus
hydrocortisone/aloe vera	hydrocortisone-aloe vera
hydrocortisone/aloe vera	Hydroskin with Aloe
hydrocortisone/aloe vera/vitamin E acetate/vitamins A and D	Anti-Itch (HC) with Aloe-Vit E
hydrocortisone/aloe vera/vitamin E acetate/vitamins A and D	Anti-Itch Plus
hydrocortisone/colloidal oatmeal/aloe/vitamin E	Anti-Itch (HC) with Oatmeal
hydrocortisone/colloidal oatmeal/aloe/vitamin E	Aveeno Anti-Itch (hydrocortsn)
hydrocortisone/emollient combination no.45	Pediaderm HC
hydrocortisone/mineral oil/petrolatum,white	hydrocortisone-min oil-wht pet
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
lidocaine HCl/hydrocortisone acetate	LidaMantle HC
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
lidocaine HCl/hydrocortisone acetate	Lidocaine-HC
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Meprolone Unipak
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
mometasone furoate	Elocon
mometasone furoate	mometasone
mometasone furoate/ammonium lactate	Momexin
mometasone furoate/ammonium lactate	Quinosone
mometasone furoate/dimethicone	Quinixil
prednicarbate	Dermatop
prednicarbate	prednicarbate
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone	prednisolone
prednisolone	Prelone
prednisolone acetate	Flo-Pred
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisolone sodium phosphate	Veripred 20
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred Plus
prednisone	Deltasone
prednisone	prednisone
prednisone	Prednisone Intensol
prednisone	Rayos

Appendix H. List of Generic and Brand Names of Medical Products Used to Define Event Outcomes in this Request

Generic Name	Brand Name
prednisone	Sterapred
triamcinolone acetonide	Kenalog
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide	Trianex
triamcinolone acetonide	Triderm
triamcinolone acetonide/dimethicone	Ellzia Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermacinRx SilaPak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaSilkRx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaWerx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	NuTriaRx
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	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/niacinamide	triamcinolone-niacinamide
triamcinolone acetonide/silicones	DermacinRx SilaZone
triamcinolone acetonide/silicones	Dermazone
triamcinolone acetonide/silicones	SilaLite Pak
triamcinolone acetonide/silicones	Silazone-II

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
AUTOIMMUNE DISEASES			
Addison's Disease			
017.6	Tuberculosis of adrenal glands	Diagnosis	ICD-9-CM
281.0	Pernicious anemia	Diagnosis	ICD-9-CM
359.5	Myopathy in endocrine diseases classified elsewhere	Diagnosis	ICD-9-CM
255.41	Glucocorticoid deficiency	Diagnosis	ICD-9-CM
255.4	Corticoadrenal insufficiency	Diagnosis	ICD-9-CM
701.0	Circumscribed scleroderma	Diagnosis	ICD-9-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
E27.1	Primary adrenocortical insufficiency	Diagnosis	ICD-10-CM
E27.2	Addisonian crisis	Diagnosis	ICD-10-CM
E27.3	Drug-induced adrenocortical insufficiency	Diagnosis	ICD-10-CM
E27.40	Unspecified adrenocortical insufficiency	Diagnosis	ICD-10-CM
E27.49	Other adrenocortical insufficiency	Diagnosis	ICD-10-CM
E89.6	Postprocedural adrenocortical (-medullary) hypofunction	Diagnosis	ICD-10-CM
G73.7	Myopathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
L90.0	Lichen sclerosus et atrophicus	Diagnosis	ICD-10-CM
L94.0	Localized scleroderma [morphea]	Diagnosis	ICD-10-CM
L94.1	Linear scleroderma	Diagnosis	ICD-10-CM
L94.3	Sclerodactyly	Diagnosis	ICD-10-CM
Autoimmune Vasculitis			
273.2	Other paraproteinemias	Diagnosis	ICD-9-CM
287.0	Allergic purpura	Diagnosis	ICD-9-CM
362.18	Retinal vasculitis	Diagnosis	ICD-9-CM
446.29	Other specified hypersensitivity angiitis	Diagnosis	ICD-9-CM
447.6	Unspecified arteritis	Diagnosis	ICD-9-CM
447.8	Other specified disorders of arteries and arterioles	Diagnosis	ICD-9-CM
695.2	Erythema nodosum	Diagnosis	ICD-9-CM
D69.0	Allergic purpura	Diagnosis	ICD-10-CM
D89.1	Cryoglobulinemia	Diagnosis	ICD-10-CM
H35.061	Retinal vasculitis, right eye	Diagnosis	ICD-10-CM
H35.062	Retinal vasculitis, left eye	Diagnosis	ICD-10-CM
H35.063	Retinal vasculitis, bilateral	Diagnosis	ICD-10-CM
H35.069	Retinal vasculitis, unspecified eye	Diagnosis	ICD-10-CM
I77.3	Arterial fibromuscular dysplasia	Diagnosis	ICD-10-CM
I77.6	Arteritis, unspecified	Diagnosis	ICD-10-CM
I77.89	Other specified disorders of arteries and arterioles	Diagnosis	ICD-10-CM
L52	Erythema nodosum	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angiitis	Diagnosis	ICD-10-CM
L95.0	Livedoid vasculitis	Diagnosis	ICD-10-CM
L95.8	Other vasculitis limited to the skin	Diagnosis	ICD-10-CM
H35.06	Retinal vasculitis	Diagnosis	ICD-10-CM
L95	Vasculitis limited to skin, not elsewhere classified	Diagnosis	ICD-10-CM
L95.9	Vasculitis limited to the skin, unspecified	Diagnosis	ICD-10-CM
Celiac Disease			
K90.0	Celiac disease	Diagnosis	ICD-9-CM
579.0	Celiac disease	Diagnosis	ICD-10-CM
Graves' Disease			
242	Toxic diffuse goiter	Diagnosis	ICD-9-CM
E05.0	Thyrotoxicosis with diffuse goiter	Diagnosis	ICD-10-CM
E05.01	Graves' disease with thyrotoxic crisis	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Hashimoto's Thyroiditis			
245.2	Chronic lymphocytic thyroiditis	Diagnosis	ICD-9-CM
E06.3	Autoimmune thyroiditis	Diagnosis	ICD-10-CM
Inflammatory Bowel Disease			
560.89	Other specified intestinal obstruction	Diagnosis	ICD-9-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K56.690	Other partial intestinal obstruction	Diagnosis	ICD-10-CM
K56.691	Other complete intestinal obstruction	Diagnosis	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
Multiple Sclerosis			
340	Multiple sclerosis	Diagnosis	ICD-9-CM
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
Myasthenia Gravis			
358.00	Myasthenia gravis without (acute) exacerbation	Diagnosis	ICD-9-CM
G70.00	Myasthenia gravis without (acute) exacerbation	Diagnosis	ICD-10-CM
G70.0	Myasthenia gravis	Diagnosis	ICD-10-CM
G70	Myasthenia gravis and other myoneural disorders	Diagnosis	ICD-10-CM
G70.01	Myasthenia gravis with (acute) exacerbation	Diagnosis	ICD-10-CM
P94.0	Transient neonatal myasthenia gravis	Diagnosis	ICD-10-CM
Pernicious Anemia			
281.0	Pernicious anemia	Diagnosis	ICD-9-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
Psoriatic Arthritis			
696.1	Other psoriasis	Diagnosis	ICD-9-CM
696	Psoriasis and similar disorders	Diagnosis	ICD-9-CM
696.0	Psoriatic arthropathy	Diagnosis	ICD-9-CM
L40.0	Psoriasis vulgaris	Diagnosis	ICD-10-CM
L40.1	Generalized pustular psoriasis	Diagnosis	ICD-10-CM
L40.2	Acrodermatitis continua	Diagnosis	ICD-10-CM
L40.3	Pustulosis palmaris et plantaris	Diagnosis	ICD-10-CM
L40.4	Guttate psoriasis	Diagnosis	ICD-10-CM
L40.50	Arthropathic psoriasis, unspecified	Diagnosis	ICD-10-CM
L40.51	Distal interphalangeal psoriatic arthropathy	Diagnosis	ICD-10-CM
L40.52	Psoriatic arthritis mutilans	Diagnosis	ICD-10-CM
L40.53	Psoriatic spondylitis	Diagnosis	ICD-10-CM
L40.54	Psoriatic juvenile arthropathy	Diagnosis	ICD-10-CM
L40.59	Other psoriatic arthropathy	Diagnosis	ICD-10-CM
L40.8	Other psoriasis	Diagnosis	ICD-10-CM
L40.9	Psoriasis, unspecified	Diagnosis	ICD-10-CM
L40	Psoriasis	Diagnosis	ICD-10-CM
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Diagnosis	ICD-9-CM
714.0	Rheumatoid arthritis	Diagnosis	ICD-9-CM
714.2	Other rheumatoid arthritis with visceral or systemic involvement	Diagnosis	ICD-9-CM
714.30	Polyarticular juvenile rheumatoid arthritis, chronic or unspecified	Diagnosis	ICD-9-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
714.31	Polyarticular juvenile rheumatoid arthritis, acute	Diagnosis	ICD-9-CM
714.32	Pauciarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
714.33	Monoarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
V82.1	Screening for rheumatoid arthritis	Diagnosis	ICD-9-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Z13.828	Encounter for screening for other musculoskeletal disorder	Diagnosis	ICD-10-CM
Type 1 Diabetes			
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], 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
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3211	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
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	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
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	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
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	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
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	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
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
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
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	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
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative 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
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
HEMATOLOGICAL BLOOD DISORDERS			
Anemia			
280.9	Unspecified iron deficiency anemia	Diagnosis	ICD-9-CM
281.9	Unspecified deficiency anemia	Diagnosis	ICD-9-CM
281.4	Protein-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
281.3	Other specified megaloblastic anemias not elsewhere classified	Diagnosis	ICD-9-CM
280.8	Other specified iron deficiency anemias	Diagnosis	ICD-9-CM
280.1	Iron deficiency anemia secondary to inadequate dietary iron intake	Diagnosis	ICD-9-CM
280.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-9-CM
281.2	Folate-deficiency anemia	Diagnosis	ICD-9-CM
281.8	Anemia associated with other specified nutritional deficiency	Diagnosis	ICD-9-CM
D52.0	Dietary folate deficiency anemia	Diagnosis	ICD-10-CM
D52.1	Drug-induced folate deficiency anemia	Diagnosis	ICD-10-CM
D52.9	Folate deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-10-CM
D50.9	Iron deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D53.9	Nutritional anemia, unspecified	Diagnosis	ICD-10-CM
D51.3	Other dietary vitamin B12 deficiency anemia	Diagnosis	ICD-10-CM
D52.8	Other folate deficiency anemias	Diagnosis	ICD-10-CM
D50.8	Other iron deficiency anemias	Diagnosis	ICD-10-CM
D53.1	Other megaloblastic anemias, not elsewhere classified	Diagnosis	ICD-10-CM
D53.8	Other specified nutritional anemias	Diagnosis	ICD-10-CM
D51.8	Other vitamin B12 deficiency anemias	Diagnosis	ICD-10-CM
D53.0	Protein deficiency anemia	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D53.2	Scorbutic anemia	Diagnosis	ICD-10-CM
D50.1	Sideropenic dysphagia	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM
D51.1	Vitamin B12 deficiency anemia due to selective vitamin B12 malabsorption with proteinuria	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
D51.9	Vitamin B12 deficiency anemia, unspecified	Diagnosis	ICD-10-CM
283.10	Unspecified non-autoimmune hemolytic anemia	Diagnosis	ICD-9-CM
282.9	Unspecified hereditary hemolytic anemia	Diagnosis	ICD-9-CM
282.40	Thalassemia, unspecified	Diagnosis	ICD-9-CM
282.46	Thalassemia minor	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
282.5	Sickle-cell trait	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
282.60	Sickle-cell disease, unspecified	Diagnosis	ICD-9-CM
282.49	Other thalassemia	Diagnosis	ICD-9-CM
282.8	Other specified hereditary hemolytic anemias	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
283.19	Other non-autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
282.3	Other hemolytic anemias due to enzyme deficiency	Diagnosis	ICD-9-CM
282.7	Other hemoglobinopathies	Diagnosis	ICD-9-CM
282.0	Hereditary spherocytosis	Diagnosis	ICD-9-CM
282.1	Hereditary elliptocytosis	Diagnosis	ICD-9-CM
283.11	Hemolytic-uremic syndrome	Diagnosis	ICD-9-CM
283.2	Hemoglobinuria due to hemolysis from external causes	Diagnosis	ICD-9-CM
282.47	Hemoglobin E-beta thalassemia	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
282.45	Delta-beta thalassemia	Diagnosis	ICD-9-CM
282.44	Beta thalassemia	Diagnosis	ICD-9-CM
283.0	Autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
282.2	Anemias due to disorders of glutathione metabolism	Diagnosis	ICD-9-CM
282.43	Alpha thalassemia	Diagnosis	ICD-9-CM
283.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-9-CM
D59.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D56.0	Alpha thalassemia	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
D55.9	Anemia due to enzyme disorder, unspecified	Diagnosis	ICD-10-CM
D56.1	Beta thalassemia	Diagnosis	ICD-10-CM
D56.2	Delta-beta thalassemia	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	Diagnosis	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	Diagnosis	ICD-10-CM
D58.0	Hereditary spherocytosis	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D59.8	Other acquired hemolytic anemias	Diagnosis	ICD-10-CM
D55.8	Other anemias due to enzyme disorders	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D58.2	Other hemoglobinopathies	Diagnosis	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-10-CM
D56.8	Other thalassemias	Diagnosis	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia with crisis, unspecified	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D56.3	Thalassemia minor	Diagnosis	ICD-10-CM
D56.9	Thalassemia, unspecified	Diagnosis	ICD-10-CM
284.9	Unspecified aplastic anemia	Diagnosis	ICD-9-CM
285.9	Unspecified anemia	Diagnosis	ICD-9-CM
285.0	Sideroblastic anemia	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
285.8	Other specified anemias	Diagnosis	ICD-9-CM
284.19	Other pancytopenia	Diagnosis	ICD-9-CM
284.12	Other drug induced pancytopenia	Diagnosis	ICD-9-CM
284.09	Other constitutional aplastic anemia	Diagnosis	ICD-9-CM
284.2	Myelophthisis	Diagnosis	ICD-9-CM
284.01	Constitutional red blood cell aplasia	Diagnosis	ICD-9-CM
284.11	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-9-CM
285.3	Antineoplastic chemotherapy induced anemia	Diagnosis	ICD-9-CM
285.29	Anemia of other chronic disease	Diagnosis	ICD-9-CM
285.22	Anemia in neoplastic disease	Diagnosis	ICD-9-CM
285.21	Anemia in chronic kidney disease	Diagnosis	ICD-9-CM
285.1	Acute posthemorrhagic anemia	Diagnosis	ICD-9-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D62	Acute posthemorrhagic anemia	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D63.1	Anemia in chronic kidney disease	Diagnosis	ICD-10-CM
D63.0	Anemia in neoplastic disease	Diagnosis	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	Diagnosis	ICD-10-CM
D64.9	Anemia, unspecified	Diagnosis	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D64.0	Hereditary sideroblastic anemia	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	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
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D64.3	Other sideroblastic anemias	Diagnosis	ICD-10-CM
D64.89	Other specified anemias	Diagnosis	ICD-10-CM
D64.2	Secondary sideroblastic anemia due to drugs and toxins	Diagnosis	ICD-10-CM
D64.1	Secondary sideroblastic anemia due to disease	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
Hemophilia			
286.0	Congenital factor VIII disorder	Diagnosis	ICD-9-CM
286.1	Congenital factor IX disorder	Diagnosis	ICD-9-CM
286.2	Congenital factor XI deficiency	Diagnosis	ICD-9-CM
286.3	Congenital deficiency of other clotting factors	Diagnosis	ICD-9-CM
286.5	Hemorrhagic disorder due to intrinsic circulating anticoagulants, antibodies or inhibitors	Diagnosis	ICD-9-CM
286.6	Defibrination syndrome	Diagnosis	ICD-9-CM
286.7	Acquired coagulation factor deficiency	Diagnosis	ICD-9-CM
286.9	Other and unspecified coagulation defects	Diagnosis	ICD-9-CM
D65	Disseminated intravascular coagulation [defibrination syndrome]	Diagnosis	ICD-10-CM
D66	Hereditary factor VIII deficiency	Diagnosis	ICD-10-CM
D67	Hereditary factor IX deficiency	Diagnosis	ICD-10-CM
D68.1	Hereditary factor XI deficiency	Diagnosis	ICD-10-CM
D68.2	Hereditary deficiency of other clotting factors	Diagnosis	ICD-10-CM
D68.32	Hemorrhagic disorder due to extrinsic circulating anticoagulants	Diagnosis	ICD-10-CM
D68.4	Acquired coagulation factor deficiency	Diagnosis	ICD-10-CM
D68.8	Other specified coagulation defects	Diagnosis	ICD-10-CM
D68.9	Coagulation defect, unspecified	Diagnosis	ICD-10-CM
D68.311	Acquired hemophilia	Diagnosis	ICD-10-CM
Z14.01	Asymptomatic hemophilia A carrier	Diagnosis	ICD-10-CM
Z14.0	Hemophilia A carrier	Diagnosis	ICD-10-CM
Z14.02	Symptomatic hemophilia A carrier	Diagnosis	ICD-10-CM
Leukemia			
202.4	LEUKEM RETICULOENDOTHEL	Diagnosis	ICD-9-CM
202.41	HAIRY-CELL LEUKEM HEAD	Diagnosis	ICD-9-CM
202.42	HAIRY-CELL LEUKEM THORAX	Diagnosis	ICD-9-CM
202.43	HAIRY-CELL LEUKEM ABDOM	Diagnosis	ICD-9-CM
202.44	HAIRY-CELL LEUKEM AXILLA	Diagnosis	ICD-9-CM
202.45	HAIRY-CELL LEUKEM INGUIN	Diagnosis	ICD-9-CM
202.46	HAIRY-CELL LEUKEM PELVIC	Diagnosis	ICD-9-CM
202.47	HAIRY-CELL LEUKEM SPLEEN	Diagnosis	ICD-9-CM
202.48	HAIRY-CELL LEUKEM MULT	Diagnosis	ICD-9-CM
203.1	PLASMA CELL LEUKEMIA	Diagnosis	ICD-9-CM
203.11	PLSM CELL LEUK W RMSON	Diagnosis	ICD-9-CM
204	ACUTE LYMPHOID LEUKEMIA	Diagnosis	ICD-9-CM
204.01	ACT LYM LEUK W RMSION	Diagnosis	ICD-9-CM
204.1	CHR LYMPHOID LEUKEMIA	Diagnosis	ICD-9-CM
204.11	CHR LYM LEUK W RMSION	Diagnosis	ICD-9-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
204.2	SUBAC LYMPHOID LEUKEMIA	Diagnosis	ICD-9-CM
204.21	SBAC LYM LEUK W RMSION	Diagnosis	ICD-9-CM
204.8	LYMPHOID LEUKEMIA NEC	Diagnosis	ICD-9-CM
204.81	OTH LYM LEUK W RMSION	Diagnosis	ICD-9-CM
204.9	LYMPHOID LEUKEMIA NOS	Diagnosis	ICD-9-CM
204.91	UNS LYM LEUK W RMSION	Diagnosis	ICD-9-CM
205	MYELOID LEUKEMIA	Diagnosis	ICD-9-CM
205.01	ACT MYL LEUK W RMSION	Diagnosis	ICD-9-CM
205.1	CHRONIC MYELOID LEUKEMIA	Diagnosis	ICD-9-CM
205.11	CHR MYL LEUK W RMSION	Diagnosis	ICD-9-CM
205.2	SUBACUT MYELOID LEUKEMIA	Diagnosis	ICD-9-CM
205.21	SBAC MYL LEUK W RMSION	Diagnosis	ICD-9-CM
205.3	MYELOID SARCOMA	Diagnosis	ICD-9-CM
205.31	MYL SRCOMA W RMSION	Diagnosis	ICD-9-CM
205.8	MYELOID LEUKEMIA NEC	Diagnosis	ICD-9-CM
205.81	OTH MYL LEUK W RMSION	Diagnosis	ICD-9-CM
205.9	MYELOID LEUKEMIA NOS	Diagnosis	ICD-9-CM
205.91	UNS MYL LEUK W RMSION	Diagnosis	ICD-9-CM
206	MONOCYTIC LEUKEMIA	Diagnosis	ICD-9-CM
206.01	ACT MONO LEUK W RMSION	Diagnosis	ICD-9-CM
206.1	CHR MONOCYTIC LEUKEMIA	Diagnosis	ICD-9-CM
206.11	CHR MONO LEUK W RMSION	Diagnosis	ICD-9-CM
206.2	SUBAC MONOCYTIC LEUKEMIA	Diagnosis	ICD-9-CM
206.21	SBAC MONO LEUK W RMSION	Diagnosis	ICD-9-CM
206.8	MONOCYTIC LEUKEMIA NEC	Diagnosis	ICD-9-CM
206.81	OTH MONO LEUK W RMSION	Diagnosis	ICD-9-CM
206.9	MONOCYTIC LEUKEMIA NOS	Diagnosis	ICD-9-CM
206.91	UNS MONO LEUK W RMSION	Diagnosis	ICD-9-CM
207	OTHER SPECIFIED LEUKEMIA	Diagnosis	ICD-9-CM
207.01	ACT ERTH/ERYLK W RMSON	Diagnosis	ICD-9-CM
207.1	CHRONIC ERYTHREMIA	Diagnosis	ICD-9-CM
207.11	CHR ERYTHRM W REMISION	Diagnosis	ICD-9-CM
207.2	MEGAKARYOCYTIC LEUKEMIA	Diagnosis	ICD-9-CM
207.21	MGKRYCYT LEUK W RMSION	Diagnosis	ICD-9-CM
207.8	SPECIFIED LEUKEMIA NEC	Diagnosis	ICD-9-CM
207.81	OTH SPF LEUK W REMSION	Diagnosis	ICD-9-CM
208	ACT LEUK UNS CL W/O RMSN	Diagnosis	ICD-9-CM
208.01	ACT LEUK UNS CL W RMSON	Diagnosis	ICD-9-CM
208.1	CHRONIC LEUKEMIA NOS	Diagnosis	ICD-9-CM
208.11	CHR LEUK UNS CL W RMSON	Diagnosis	ICD-9-CM
208.2	SUBACUTE LEUKEMIA NOS	Diagnosis	ICD-9-CM
208.21	SBAC LEUK UNS CL W RMSON	Diagnosis	ICD-9-CM
208.8	LEUKEMIA-UNSPEC CELL NEC	Diagnosis	ICD-9-CM
208.81	OTH LEUK UNS CL W RMSON	Diagnosis	ICD-9-CM
208.9	LEUKEMIA-UNSPEC CELL NOS	Diagnosis	ICD-9-CM
208.91	LEUKEMIA NOS W REMISSION	Diagnosis	ICD-9-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
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.01	Acute lymphoblastic leukemia, in remission	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
C91.30	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
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C91.41	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C91.42	Hairy cell leukemia, in relapse	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
C91.60	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
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.91	Lymphoid leukemia, unspecified, in remission	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.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z1	Other lymphoid leukemia, in remission	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
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C92.11	Chronic myeloid leukemia, BCR/ABL-positive, in remission	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
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C92.31	Myeloid sarcoma, in remission	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
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.51	Acute myelomonocytic leukemia, in remission	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
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.91	Myeloid leukemia, unspecified in remission	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.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92.Z1	Other myeloid leukemia, in remission	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
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.11	Chronic myelomonocytic leukemia, in remission	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
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.91	Monocytic leukemia, unspecified in remission	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
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.01	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.21	Acute megakaryoblastic leukemia, in remission	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
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.81	Other specified leukemias, in remission	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
C95.10	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
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
D45	Polycythemia vera	Diagnosis	ICD-10-CM
C92.A2	Acute myeloid leukemia with multilineage dysplasia, in relapse	Diagnosis	ICD-10-CM
C94.0	Acute erythroid leukemia	Diagnosis	ICD-10-CM
C94.02	Acute erythroid leukemia, in relapse	Diagnosis	ICD-10-CM
C95.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.02	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C91.0	Acute lymphoblastic leukemia [ALL]	Diagnosis	ICD-10-CM
C91.02	Acute lymphoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C94.2	Acute megakaryoblastic leukemia	Diagnosis	ICD-10-CM
C94.22	Acute megakaryoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.0	Acute monoblastic/monocytic leukemia	Diagnosis	ICD-10-CM
C93.02	Acute monoblastic/monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.0	Acute myeloblastic leukemia	Diagnosis	ICD-10-CM
C92.02	Acute myeloblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.62	Acute myeloid leukemia with 11q23-abnormality in relapse	Diagnosis	ICD-10-CM
C92.A	Acute myeloid leukemia with multilineage dysplasia	Diagnosis	ICD-10-CM
C92.6	Acute myeloid leukemia with 11q23-abnormality	Diagnosis	ICD-10-CM
C92.5	Acute myelomonocytic leukemia	Diagnosis	ICD-10-CM
C92.52	Acute myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.4	Acute promyelocytic leukemia	Diagnosis	ICD-10-CM
C92.42	Acute promyelocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C91.5	Adult T-cell lymphoma/leukemia (HTLV-1-associated)	Diagnosis	ICD-10-CM
C91.52	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C92.22	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse	Diagnosis	ICD-10-CM
C92.2	Atypical chronic myeloid leukemia, BCR/ABL-negative	Diagnosis	ICD-10-CM
C95.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.12	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C91.12	Chronic lymphocytic leukemia of B-cell type in relapse	Diagnosis	ICD-10-CM
C91.1	Chronic lymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C92.12	Chronic myeloid leukemia, BCR/ABL-positive, in relapse	Diagnosis	ICD-10-CM
C92.1	Chronic myeloid leukemia, BCR/ABL-positive	Diagnosis	ICD-10-CM
C93.12	Chronic myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.1	Chronic myelomonocytic leukemia	Diagnosis	ICD-10-CM
Z80.6	Family history of leukemia	Diagnosis	ICD-10-CM
C91.4	Hairy cell leukemia	Diagnosis	ICD-10-CM
C93.3	Juvenile myelomonocytic leukemia	Diagnosis	ICD-10-CM
C93.32	Juvenile myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C95	Leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.9	Leukemia, unspecified	Diagnosis	ICD-10-CM
C95.92	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C91	Lymphoid leukemia	Diagnosis	ICD-10-CM
C91.9	Lymphoid leukemia, unspecified	Diagnosis	ICD-10-CM
C91.92	Lymphoid leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C94.3	Mast cell leukemia	Diagnosis	ICD-10-CM
C94.32	Mast cell leukemia, in relapse	Diagnosis	ICD-10-CM
C91.A	Mature B-cell leukemia Burkitt-type	Diagnosis	ICD-10-CM
C91.A2	Mature B-cell leukemia Burkitt-type, in relapse	Diagnosis	ICD-10-CM
C93	Monocytic leukemia	Diagnosis	ICD-10-CM
C93.9	Monocytic leukemia, unspecified	Diagnosis	ICD-10-CM
C93.92	Monocytic leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C92	Myeloid leukemia	Diagnosis	ICD-10-CM
C92.9	Myeloid leukemia, unspecified	Diagnosis	ICD-10-CM
C92.92	Myeloid leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C94	Other leukemias of specified cell type	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C91.Z	Other lymphoid leukemia	Diagnosis	ICD-10-CM
C91.Z2	Other lymphoid leukemia, in relapse	Diagnosis	ICD-10-CM
C93.Z	Other monocytic leukemia	Diagnosis	ICD-10-CM
C93.Z2	Other monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.Z	Other myeloid leukemia	Diagnosis	ICD-10-CM
C92.Z2	Other myeloid leukemia, in relapse	Diagnosis	ICD-10-CM
C94.8	Other specified leukemias	Diagnosis	ICD-10-CM
C94.82	Other specified leukemias, in relapse	Diagnosis	ICD-10-CM
Z85.6	Personal history of leukemia	Diagnosis	ICD-10-CM
C90.1	Plasma cell leukemia	Diagnosis	ICD-10-CM
C90.12	Plasma cell leukemia in relapse	Diagnosis	ICD-10-CM
C91.32	Prolymphocytic leukemia of B-cell type, in relapse	Diagnosis	ICD-10-CM
C91.3	Prolymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C91.6	Prolymphocytic leukemia of T-cell type	Diagnosis	ICD-10-CM
C91.62	Prolymphocytic leukemia of T-cell type, in relapse	Diagnosis	ICD-10-CM
Lymphoma			
C81	Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.0	Nodular lymphocyte predominant Hodgkin lymphoma	Diagnosis	ICD-10-CM
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
C82	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C82.0	Follicular lymphoma grade I, unspecified site	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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
C83.0	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, unspecified site	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
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
C83.2	Mixed small and large cell (diffuse) Non-Hodgkin's	Diagnosis	ICD-10-CM
C83.3	Large cell (diffuse) Non-Hodgkin's 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) Non-Hodgkin's 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's tumour	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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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	Large cell (diffuse) Non-Hodgkin's lymphoma (includes recticulum cell sarcoma)	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
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, unspecified site	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
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	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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
C85.0	Other specified and unspecified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C85.00	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
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
C88.0	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
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
C91.3	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
C91.4	Hairy cell leukemia	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia, not having achieved remission	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
C91.6	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.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
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D47.Z1	Post-transplant lymphoproliferative disorder	Diagnosis	ICD-10-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	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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
200.88	Other named variants of lymphosarcoma and reticulosarcoma 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
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
202.4	Hairy cell leukemia	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

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
202.7	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
204.1	Lymphoid Leukemia, chronic	Diagnosis	ICD-9-CM
204.2	Lymphoid Leukemia, subacute	Diagnosis	ICD-9-CM
204.8	Other lymphoid leukemia	Diagnosis	ICD-9-CM
204.9	Unspecified lymphoid leukemia	Diagnosis	ICD-9-CM
C91.52	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C91.51	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas	Diagnosis	ICD-10-CM
C83	Non-follicular lymphoma	Diagnosis	ICD-10-CM
Z85.71	Personal history of Hodgkin lymphoma	Diagnosis	ICD-10-CM
Z85.72	Personal history of non-Hodgkin lymphomas	Diagnosis	ICD-10-CM

Myelodysplastic Syndrome

238.75	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-9-CM
238.74	Myelodysplastic syndrome with 5q deletion	Diagnosis	ICD-9-CM
238.72	Low grade myelodysplastic syndrome lesions	Diagnosis	ICD-9-CM
238.73	High grade myelodysplastic syndrome lesions	Diagnosis	ICD-9-CM
D46.0	Refractory anemia without ring sideroblasts, so stated	Diagnosis	ICD-10-CM
D46.1	Refractory anemia with ring sideroblasts	Diagnosis	ICD-10-CM
D46.20	Refractory anemia with excess of blasts, unspecified	Diagnosis	ICD-10-CM
D46.21	Refractory anemia with excess of blasts 1	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D46.4	Refractory anemia, unspecified	Diagnosis	ICD-10-CM
D46.9	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-10-CM
D46.A	Refractory cytopenia with multilineage dysplasia	Diagnosis	ICD-10-CM
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts	Diagnosis	ICD-10-CM
D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality	Diagnosis	ICD-10-CM
D46.Z	Other myelodysplastic syndromes	Diagnosis	ICD-10-CM
D46	Myelodysplastic syndromes	Diagnosis	ICD-10-CM

Myeloma

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
277.3	Amyloidosis NOS	Diagnosis	ICD-9-CM
277.39	Amyloidosis NEC	Diagnosis	ICD-9-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
E85.1	Neuropathic heredofamilial amyloidosis	Diagnosis	ICD-10-CM
E85.2	Heredofamilial amyloidosis, unspecified	Diagnosis	ICD-10-CM
E85.3	Secondary systemic amyloidosis	Diagnosis	ICD-10-CM
E85.4	Organ-limited amyloidosis	Diagnosis	ICD-10-CM
E85.81	Light chain (AL) amyloidosis	Diagnosis	ICD-10-CM
E85.82	Wild-type transthyretin-related (ATTR) amyloidosis	Diagnosis	ICD-10-CM
E85.89	Other amyloidosis	Diagnosis	ICD-10-CM
C90.0	Multiple myeloma	Diagnosis	ICD-10-CM
C90	Multiple myeloma and malignant plasma cell neoplasms	Diagnosis	ICD-10-CM
Sickle Cell Disease			
282.6	Sickle-cell disease	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
D57.80	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
D57.8	Other sickle-cell disorders	Diagnosis	ICD-10-CM
D57.81	Other sickle-cell disorders with crisis	Diagnosis	ICD-10-CM
D57	Sickle-cell disorders	Diagnosis	ICD-10-CM
D57.4	Sickle-cell thalassemia	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57.41	Sickle-cell thalassemia with crisis	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia with crisis, unspecified	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.2	Sickle-cell/Hb-C disease	Diagnosis	ICD-10-CM
D57.21	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-10-CM
Von Willebrand Disease			
286.4	Von Willebrand's disease	Diagnosis	ICD-9-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D68.0	Von Willebrand's disease	Diagnosis	ICD-10-CM
VIRAL INFECTIONS			
Hepatitis B			
070.2	Viral hepatitis B with hepatic coma	Diagnosis	ICD-9-CM
070.20	Viral hepatitis B with hepatic coma, acute or unspecified, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.21	Viral hepatitis B with hepatic coma, acute or unspecified, with hepatitis delta	Diagnosis	ICD-9-CM
070.22	Viral hepatitis B with hepatic coma, chronic, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.23	Viral hepatitis B with hepatic coma, chronic, with hepatitis delta	Diagnosis	ICD-9-CM
070.3	Viral hepatitis B without mention of hepatic coma	Diagnosis	ICD-9-CM
070.30	Viral hepatitis B without mention of hepatic coma, acute or unspecified, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.31	Viral hepatitis B without mention of hepatic coma, acute or unspecified, with hepatitis delta	Diagnosis	ICD-9-CM
070.32	Viral hepatitis B without mention of hepatic coma, chronic, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.33	Viral hepatitis B without mention of hepatic coma, chronic, with hepatitis delta	Diagnosis	ICD-9-CM
070.42	Hepatitis delta without mention of active hepatitis B disease with hepatic coma	Diagnosis	ICD-9-CM
070.52	Hepatitis delta without mention of active hepatitis B disease or hepatic coma	Diagnosis	ICD-9-CM
V02.61	Hepatitis B carrier	Diagnosis	ICD-9-CM
B16.0	Acute hepatitis B with delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B16.1	Acute hepatitis B with delta-agent without hepatic coma	Diagnosis	ICD-10-CM
B16.2	Acute hepatitis B without delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B16.9	Acute hepatitis B without delta-agent and without hepatic coma	Diagnosis	ICD-10-CM
B17.0	Acute delta-(super) infection of hepatitis B carrier	Diagnosis	ICD-10-CM
B18.0	Chronic viral hepatitis B with delta-agent	Diagnosis	ICD-10-CM
B18.1	Chronic viral hepatitis B without delta-agent	Diagnosis	ICD-10-CM
B19.10	Unspecified viral hepatitis B without hepatic coma	Diagnosis	ICD-10-CM
B19.11	Unspecified viral hepatitis B with hepatic coma	Diagnosis	ICD-10-CM
070	Viral hepatitis	Diagnosis	ICD-9-CM
070.4	Other specified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM
070.49	Other specified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM
070.5	Other specified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
070.59	Other specified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
070.6	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM
070.9	Unspecified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
072.71	Mumps hepatitis	Diagnosis	ICD-9-CM
091.62	Early syphilis, secondary syphilitic hepatitis	Diagnosis	ICD-9-CM
130.5	Hepatitis due to toxoplasmosis	Diagnosis	ICD-9-CM
571.1	Acute alcoholic hepatitis	Diagnosis	ICD-9-CM
571.4	Chronic hepatitis	Diagnosis	ICD-9-CM
571.40	Unspecified chronic hepatitis	Diagnosis	ICD-9-CM
571.41	Chronic persistent hepatitis	Diagnosis	ICD-9-CM
571.42	Autoimmune hepatitis	Diagnosis	ICD-9-CM
571.49	Other chronic hepatitis	Diagnosis	ICD-9-CM
573.1	Hepatitis in viral diseases classified elsewhere	Diagnosis	ICD-9-CM
573.2	Hepatitis in other infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
573.3	Unspecified hepatitis	Diagnosis	ICD-9-CM
V02.6	Carrier or suspected carrier of viral hepatitis	Diagnosis	ICD-9-CM
V02.60	Unspecified viral hepatitis carrier	Diagnosis	ICD-9-CM
V02.69	Other viral hepatitis carrier	Diagnosis	ICD-9-CM
V05.3	Need for prophylactic vaccination and inoculation against viral hepatitis	Diagnosis	ICD-9-CM
A51.45	Secondary syphilitic hepatitis	Diagnosis	ICD-10-CM
B17.8	Other specified acute viral hepatitis	Diagnosis	ICD-10-CM
B17.9	Acute viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B18.8	Other chronic viral hepatitis	Diagnosis	ICD-10-CM
B18.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
B19.0	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-10-CM
B19.9	Unspecified viral hepatitis without hepatic coma	Diagnosis	ICD-10-CM
B25.1	Cytomegaloviral hepatitis	Diagnosis	ICD-10-CM
B26.81	Mumps hepatitis	Diagnosis	ICD-10-CM
B58.1	Toxoplasma hepatitis	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K71.0	Toxic liver disease with cholestasis	Diagnosis	ICD-10-CM
K71.10	Toxic liver disease with hepatic necrosis, without coma	Diagnosis	ICD-10-CM
K71.11	Toxic liver disease with hepatic necrosis, with coma	Diagnosis	ICD-10-CM
K71.2	Toxic liver disease with acute hepatitis	Diagnosis	ICD-10-CM
K71.3	Toxic liver disease with chronic persistent hepatitis	Diagnosis	ICD-10-CM
K71.4	Toxic liver disease with chronic lobular hepatitis	Diagnosis	ICD-10-CM
K71.50	Toxic liver disease with chronic active hepatitis without ascites	Diagnosis	ICD-10-CM
K71.51	Toxic liver disease with chronic active hepatitis with ascites	Diagnosis	ICD-10-CM
K71.6	Toxic liver disease with hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K71.7	Toxic liver disease with fibrosis and cirrhosis of liver	Diagnosis	ICD-10-CM
K71.8	Toxic liver disease with other disorders of liver	Diagnosis	ICD-10-CM
K71.9	Toxic liver disease, unspecified	Diagnosis	ICD-10-CM
K73.0	Chronic persistent hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.1	Chronic lobular hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.2	Chronic active hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.8	Other chronic hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.9	Chronic hepatitis, unspecified	Diagnosis	ICD-10-CM
K75.2	Nonspecific reactive hepatitis	Diagnosis	ICD-10-CM
K75.3	Granulomatous hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K75.4	Autoimmune hepatitis	Diagnosis	ICD-10-CM
K75.81	Nonalcoholic steatohepatitis (NASH)	Diagnosis	ICD-10-CM
K75.89	Other specified inflammatory liver diseases	Diagnosis	ICD-10-CM
K75.9	Inflammatory liver disease, unspecified	Diagnosis	ICD-10-CM
K76.4	Peliosis hepatis	Diagnosis	ICD-10-CM
K77	Liver disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
Hepatitis C			
070.41	Acute hepatitis C with hepatic coma	Diagnosis	ICD-9-CM
070.44	Chronic hepatitis C with hepatic coma	Diagnosis	ICD-9-CM
070.51	Acute hepatitis C without mention of hepatic coma	Diagnosis	ICD-9-CM
070.54	Chronic hepatitis C without mention of hepatic coma	Diagnosis	ICD-9-CM
070.7	Unspecified viral hepatitis C	Diagnosis	ICD-9-CM
070.70	Unspecified viral hepatitis C without hepatic coma	Diagnosis	ICD-9-CM
070.71	Unspecified viral hepatitis C with hepatic coma	Diagnosis	ICD-9-CM
V02.60	Unspecified viral hepatitis carrier	Diagnosis	ICD-9-CM
V02.62	Hepatitis C carrier	Diagnosis	ICD-9-CM
V02.69	Other viral hepatitis carrier	Diagnosis	ICD-9-CM
B17.10	Acute hepatitis C without hepatic coma	Diagnosis	ICD-10-CM
B17.11	Acute hepatitis C with hepatic coma	Diagnosis	ICD-10-CM
B18.2	Chronic viral hepatitis C	Diagnosis	ICD-10-CM
B19.20	Unspecified viral hepatitis C without hepatic coma	Diagnosis	ICD-10-CM
B19.21	Unspecified viral hepatitis C with hepatic coma	Diagnosis	ICD-10-CM
070	Viral hepatitis	Diagnosis	ICD-9-CM
070.4	Other specified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM
070.49	Other specified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM
070.5	Other specified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
070.59	Other specified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
070.6	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-9-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
070.9	Unspecified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
072.71	Mumps hepatitis	Diagnosis	ICD-9-CM
091.62	Early syphilis, secondary syphilitic hepatitis	Diagnosis	ICD-9-CM
130.5	Hepatitis due to toxoplasmosis	Diagnosis	ICD-9-CM
571.1	Acute alcoholic hepatitis	Diagnosis	ICD-9-CM
571.4	Chronic hepatitis	Diagnosis	ICD-9-CM
571.40	Unspecified chronic hepatitis	Diagnosis	ICD-9-CM
571.41	Chronic persistent hepatitis	Diagnosis	ICD-9-CM
571.42	Autoimmune hepatitis	Diagnosis	ICD-9-CM
571.49	Other chronic hepatitis	Diagnosis	ICD-9-CM
573.1	Hepatitis in viral diseases classified elsewhere	Diagnosis	ICD-9-CM
573.2	Hepatitis in other infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
573.3	Unspecified hepatitis	Diagnosis	ICD-9-CM
V02.6	Carrier or suspected carrier of viral hepatitis	Diagnosis	ICD-9-CM
V02.60	Unspecified viral hepatitis carrier	Diagnosis	ICD-9-CM
V02.69	Other viral hepatitis carrier	Diagnosis	ICD-9-CM
V05.3	Need for prophylactic vaccination and inoculation against viral hepatitis	Diagnosis	ICD-9-CM
A51.45	Secondary syphilitic hepatitis	Diagnosis	ICD-10-CM
B17.8	Other specified acute viral hepatitis	Diagnosis	ICD-10-CM
B17.9	Acute viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B18.8	Other chronic viral hepatitis	Diagnosis	ICD-10-CM
B18.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B19.0	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-10-CM
B19.9	Unspecified viral hepatitis without hepatic coma	Diagnosis	ICD-10-CM
B25.1	Cytomegaloviral hepatitis	Diagnosis	ICD-10-CM
B26.81	Mumps hepatitis	Diagnosis	ICD-10-CM
B58.1	Toxoplasma hepatitis	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K71.0	Toxic liver disease with cholestasis	Diagnosis	ICD-10-CM
K71.10	Toxic liver disease with hepatic necrosis, without coma	Diagnosis	ICD-10-CM
K71.11	Toxic liver disease with hepatic necrosis, with coma	Diagnosis	ICD-10-CM
K71.2	Toxic liver disease with acute hepatitis	Diagnosis	ICD-10-CM
K71.3	Toxic liver disease with chronic persistent hepatitis	Diagnosis	ICD-10-CM
K71.4	Toxic liver disease with chronic lobular hepatitis	Diagnosis	ICD-10-CM
K71.50	Toxic liver disease with chronic active hepatitis without ascites	Diagnosis	ICD-10-CM
K71.51	Toxic liver disease with chronic active hepatitis with ascites	Diagnosis	ICD-10-CM
K71.6	Toxic liver disease with hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K71.7	Toxic liver disease with fibrosis and cirrhosis of liver	Diagnosis	ICD-10-CM
K71.8	Toxic liver disease with other disorders of liver	Diagnosis	ICD-10-CM
K71.9	Toxic liver disease, unspecified	Diagnosis	ICD-10-CM
K73.0	Chronic persistent hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.1	Chronic lobular hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.2	Chronic active hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.8	Other chronic hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.9	Chronic hepatitis, unspecified	Diagnosis	ICD-10-CM
K75.2	Nonspecific reactive hepatitis	Diagnosis	ICD-10-CM
K75.3	Granulomatous hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K75.4	Autoimmune hepatitis	Diagnosis	ICD-10-CM
K75.81	Nonalcoholic steatohepatitis (NASH)	Diagnosis	ICD-10-CM
K75.89	Other specified inflammatory liver diseases	Diagnosis	ICD-10-CM
K75.9	Inflammatory liver disease, unspecified	Diagnosis	ICD-10-CM
K76.4	Peliosis hepatis	Diagnosis	ICD-10-CM
K77	Liver disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Human Immunodeficiency Virus			
042	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-9-CM
07953	Human immunodeficiency virus, type 2 [HIV-2]	Diagnosis	ICD-9-CM
V08	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-9-CM
B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
B97.35	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
BACTERIAL INFECTIONS			
Chronic Bacteremia			
771.83	Bacteremia of newborn	Diagnosis	ICD-9-CM
790.7	Bacteremia	Diagnosis	ICD-9-CM
R78.81	Bacteremia	Diagnosis	ICD-10-CM
421.0	Acute and subacute bacterial endocarditis	Diagnosis	ICD-9-CM
I33.0	Acute and subacute infective endocarditis	Diagnosis	ICD-10-CM

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

Generic Name	Brand Name
ANTI-INFECTIVES	
Acyclovir	
acyclovir	acyclovir
acyclovir	acyclovir (bulk)
acyclovir	Sitavig
acyclovir	Zovirax
acyclovir sodium	acyclovir sodium
acyclovir sodium/dextrose 5 % in water	acyclovir sod in dextrose 5 %
acyclovir, micronized	acyclovir, micronized (bulk)
valacyclovir HCl	valacyclovir
valacyclovir HCl	valacyclovir (bulk)
valacyclovir HCl	Valtrex
Ampicillin	
ampicillin sodium	ampicillin sodium
ampicillin sodium/sulbactam sodium	ampicillin-sulbactam
ampicillin sodium/sulbactam sodium	Unasyn
ampicillin trihydrate	ampicillin
Cephalosporin	
cefaclor	Ceclor
cefaclor	cefaclor
cefadroxil	cefadroxil
cefadroxil	Duricef
cefazolin sodium	cefazolin
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	cefazolin in dextrose (iso-os)
cefazolin sodium/water for injection,sterile	cefazolin in sterile water
cefdinir	cefdinir
cefdinir	Omnicef
cefditoren pivoxil	cefditoren pivoxil
cefditoren pivoxil	Spectracef
cefepime HCl	cefepime
cefepime HCl	Maxipime
cefepime HCl in dextrose 5 % in water	cefepime in dextrose 5 %
cefepime HCl in iso-osmotic dextrose	cefepime in dextrose,iso-osm
cefixime	cefixime
cefixime	Suprax
cefotaxime sodium	cefotaxime
cefotaxime sodium	Claforan
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
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	cefpodoxime
cefprozil	cefprozil
ceftaroline fosamil acetate	Teflaro
ceftazidime	ceftazidime
ceftazidime	ceftazidime (bulk)
ceftazidime	Fortaz
ceftazidime	Tazicef
ceftazidime in dextrose 5% and water	ceftazidime in D5W
ceftazidime sodium in iso-osmotic dextrose	Fortaz in dextrose 5 %

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

Generic Name	Brand Name
ceftazidime/avibactam sodium	Avycaz
ceftibuten	Cedax
ceftibuten	ceftibuten
ceftolozane sulfate/tazobactam sodium	Zerbaxa
ceftriaxone sodium	ceftriaxone
ceftriaxone sodium	ceftriaxone sodium (bulk)
ceftriaxone sodium	Rocephin
ceftriaxone sodium in iso-osmotic dextrose	ceftriaxone in dextrose,iso-os
cefuroxime axetil	Ceftin
cefuroxime axetil	cefuroxime axetil
cefuroxime sodium	cefuroxime sodium
cefuroxime sodium	Zinacef
cefuroxime sodium/dextrose, iso-osmotic	cefuroxime-dextrose (iso-osm)
cefuroxime sodium/dextrose, iso-osmotic	Zinacef in dextrose (iso-osm)
cefuroxime sodium/water for injection,sterile	Zinacef in Sterile Water
cephalexin	cephalexin
cephalexin	Daxbia
cephalexin	Keflex

Chloramphenicol

chloramphenicol	chloramphenicol (bulk)
chloramphenicol sod succinate	chloramphenicol sod succinate

Ciprofloxacin

ciprofloxacin	Cipro
ciprofloxacin	ciprofloxacin
ciprofloxacin HCl	Cipro
ciprofloxacin HCl	ciprofloxacin (bulk)
ciprofloxacin HCl	ciprofloxacin HCl
ciprofloxacin HCl	ProQuin XR
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
ciprofloxacin/ciprofloxacin HCl	ciprofloxacin (mixture)

Clindamycin

clindamycin HCl	Cleocin HCl
clindamycin HCl	clindamycin HCl
clindamycin HCl	clindamycin HCl (bulk)
clindamycin palmitate HCl	Cleocin Pediatric
clindamycin palmitate HCl	clindamycin palmitate HCl
clindamycin palmitate HCl	Clindamycin Pediatric
clindamycin phosphate	Cleocin
clindamycin phosphate	Clin Single Use
clindamycin phosphate	clindamycin phosphate
clindamycin phosphate	clindamycin phosphate (bulk)
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

Doxycycline

doxycycline calcium	Vibramycin
doxycycline hyclate	Acticlate
doxycycline hyclate	Doryx
doxycycline hyclate	Doryx MPC
doxycycline hyclate	Doxy-100

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

Generic Name	Brand Name
doxycycline hyclate	doxycycline hyclate
doxycycline hyclate	doxycycline hyclate (bulk)
doxycycline hyclate	Morgidox
doxycycline hyclate	Soloxide
doxycycline hyclate	Targadox
doxycycline hyclate	Vibramycin
doxycycline hyclate/skin cleanser combination no.19	Morgidox 1x 50
doxycycline hyclate/skin cleanser combination no.19	Morgidox 1x100
doxycycline hyclate/skin cleanser combination no.19	Morgidox 2x100
doxycycline monohydrate	Adoxa
doxycycline monohydrate	Avidoxy
doxycycline monohydrate	doxycycline monohydrate
doxycycline monohydrate	doxycycline monohydrate (bulk)
doxycycline monohydrate	Mondoxyne NL
doxycycline monohydrate	Monodox
doxycycline monohydrate	Okebo
doxycycline monohydrate	Oracea
doxycycline monohydrate	Vibramycin
doxycycline monohydrate/benzoyl peroxide	BenoxylDoxy 30
doxycycline monohydrate/benzoyl peroxide	BenoxylDoxy 60
doxycycline monohydrate/benzoyl peroxide	BenzoDox 30
doxycycline monohydrate/benzoyl peroxide	BenzoDox 60
doxycycline monohydrate/omega-3 combination no.1/Eye Mask	Nutridox
doxycycline monohydrate/salicylic acid/octinoxate/zinc oxide	Avidoxy DK

Gentamicin

gentamicin sulfate	gentamicin
gentamicin sulfate	gentamicin (bulk)
gentamicin sulfate in sodium chloride, iso-osmotic	gentamicin in NaCl (iso-osm)
gentamicin sulfate/PF	gentamicin sulfate (ped) (PF)
gentamicin sulfate/PF	gentamicin sulfate (PF)
gentamicin sulfate/sodium citrate	gentamicin-sodium citrate

Griseofulvin

griseofulvin	griseofulvin (bulk)
griseofulvin ultramicrosize	griseofulvin ultramicrosize
griseofulvin ultramicrosize	Gris-PEG (ultramicrosize)
griseofulvin, microsize	Grifulvin V
griseofulvin, microsize	griseofulvin microsize

Isoniazid

isoniazid	isoniazid
isoniazid	isoniazid (bulk)
rifampin/isoniazid	IsonaRif
rifampin/isoniazid	Rifamate
rifampin/isoniazid/pyrazinamide	Rifater

Ofloxacin

ofloxacin	Floxin
ofloxacin	ofloxacin

Penicillin

amoxicillin	amoxicillin
amoxicillin	amoxicillin (bulk)
amoxicillin	Amoxil
amoxicillin	Moxatag
amoxicillin	Trimox

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

Generic Name	Brand Name
amoxicillin/potassium clavulanate	amoxicillin-pot clavula (bulk)
amoxicillin/potassium clavulanate	amoxicillin-pot clavulanate
amoxicillin/potassium clavulanate	Augmentin
amoxicillin/potassium clavulanate	Augmentin ES-600
amoxicillin/potassium clavulanate	Augmentin XR
ampicillin sodium	ampicillin sodium
ampicillin sodium/sulbactam sodium	ampicillin-sulbactam
ampicillin sodium/sulbactam sodium	Unasyn
ampicillin trihydrate	ampicillin
dicloxacillin sodium	dicloxacillin
nafcillin in dextrose, iso-osmotic	nafcillin in dextrose iso-osm
nafcillin sodium	nafcillin
oxacillin sodium	oxacillin
oxacillin sodium in iso-osmotic dextrose	oxacillin in dextrose(iso-osm)
penicillin G benzathine	Bicillin L-A
penicillin G benzathine/penicillin G procaine	Bicillin C-R
penicillin G potassium	penicillin G potassium
penicillin G potassium	Pfizerpen-G
penicillin G potassium in 0.9 % sodium chloride	penicillin G pot-0.9% sodchlor
penicillin G potassium/dextrose-water	penicillin G pot in dextrose
penicillin G procaine	penicillin G procaine
penicillin G sodium	penicillin G sodium
penicillin V potassium	penicillin V potassium
piperacillin and tazobactam in dextrose, iso-osmotic	Zosyn in dextrose (iso-osm)
piperacillin sodium	piperacillin
piperacillin sodium/tazobactam sodium	piperacillin-tazobactam
piperacillin sodium/tazobactam sodium	Zosyn
ticarcillin disodium/potassium clavulanate	ticarcillin-K clavulanat(bulk)
ticarcillin disodium/potassium clavulanate	Timentin

Rifampicin

rifampin	Rifadin
rifampin	rifampin
rifampin	rifampin (bulk)
rifampin	Rimactane
rifampin/isoniazid	IsonaRif
rifampin/isoniazid	Rifamate
rifampin/isoniazid/pyrazinamide	Rifater

Trimethoprim-Sulfamethoxazole

sulfamethoxazole/trimethoprim	Bactrim
sulfamethoxazole/trimethoprim	Bactrim DS
sulfamethoxazole/trimethoprim	Septra
sulfamethoxazole/trimethoprim	Septra DS
sulfamethoxazole/trimethoprim	SMZ-TMP DS
sulfamethoxazole/trimethoprim	sulfamethoxazole-trimethoprim
sulfamethoxazole/trimethoprim	Sulfatrim

Zidovudine

abacavir sulfate/lamivudine/zidovudine	abacavir-lamivudine-zidovudine
abacavir sulfate/lamivudine/zidovudine	Trizivir
lamivudine/zidovudine	Combivir
lamivudine/zidovudine	lamivudine-zidovudine
zidovudine	Retrovir
zidovudine	zidovudine

NON-STEROIDAL ANTI-INFLAMMATORY DRUGS

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

Generic Name	Brand Name
Acetylsalicylic Acid	
aspirin	Adult Aspirin Regimen
aspirin	Adult Low Dose Aspirin
aspirin	AsperDrink
aspirin	Aspir-81
aspirin	aspirin
aspirin	aspirin (bulk)
aspirin	Aspirin Childrens
aspirin	Aspirin Extra Strength
aspirin	Aspirin Low Dose
aspirin	Aspirin Low-Strength
aspirin	Aspir-Low
aspirin	Aspir-Trin
aspirin	Baby Aspirin
aspirin	Bayer Advanced
aspirin	Bayer Aspirin
aspirin	Bayer Chewable Aspirin
aspirin	Child Aspirin
aspirin	Children's Aspirin
aspirin	Durlaza
aspirin	E.C. Prin
aspirin	Easprin
aspirin	EC Aspirin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
aspirin	Enteric Coated Aspirin
aspirin	Extra Strength Bayer
aspirin	Genacote
aspirin	Halfprin
aspirin	Lite Coat Aspirin
aspirin	Lo-Dose Aspirin
aspirin	Miniprin
aspirin	St Joseph Aspirin
aspirin	St. Joseph Aspirin
aspirin	St. Joseph Low-Dose Aspirin
aspirin	Stanback Headache Powder
aspirin	Zorprin
aspirin/acetaminophen	Goody's BODY PAIN
aspirin/acetaminophen/caffeine	Added Strength Headache Relief
aspirin/acetaminophen/caffeine	Added Strength Pain Reliever
aspirin/acetaminophen/caffeine	Excedrin Extra Strength
aspirin/acetaminophen/caffeine	Excedrin Menstrual Complete
aspirin/acetaminophen/caffeine	Excedrin Migraine
aspirin/acetaminophen/caffeine	Extra Pain Relief
aspirin/acetaminophen/caffeine	Extraprin
aspirin/acetaminophen/caffeine	Genaced
aspirin/acetaminophen/caffeine	Goody's Extra Strength
aspirin/acetaminophen/caffeine	Goody's Migraine Relief
aspirin/acetaminophen/caffeine	Headache Formula
aspirin/acetaminophen/caffeine	Headache Formula Added Str
aspirin/acetaminophen/caffeine	Headache Relief (ASA-acet-caf)
aspirin/acetaminophen/caffeine	Migraine Formula
aspirin/acetaminophen/caffeine	Migraine Pain Reliever
aspirin/acetaminophen/caffeine	Migraine Relief
aspirin/acetaminophen/caffeine	Pain Relief (acetamin-asp-caf)
aspirin/acetaminophen/caffeine	Pain Reliever (acetam-aspirin)
aspirin/acetaminophen/caffeine	Pain Reliever Added Strength

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

Generic Name	Brand Name
aspirin/acetaminophen/caffeine	Pain Reliever Plus
aspirin/acetaminophen/caffeine	Pain-Off
aspirin/acetaminophen/caffeine	Pamprin Max
aspirin/acetaminophen/caffeine	Super Pain Relief
aspirin/acetaminophen/caffeine/potassium	Goody's Headache Powder
aspirin/acetaminophen/calcium carbonate	Excedrin Back and Body
aspirin/acetaminophen/magnesium/aluminum hydroxide/caffeine	Vanquish
aspirin/caffeine	Anacin
aspirin/caffeine	Anacin Maximum Strength
aspirin/caffeine	Analgesic (aspirin/caffeine)
aspirin/caffeine	aspirin-caffeine
aspirin/caffeine	Back and Body Pain Reliever
aspirin/caffeine	Bayer Aspirin (with caffeine)
aspirin/caffeine	Bayer Back and Body
aspirin/caffeine	BC Arthritis
aspirin/caffeine	BC Pain Relief
aspirin/caffeine	Stanback
aspirin/calcium carbonate	Women's Aspirin with Calcium
aspirin/calcium carbonate/magnesium	aspirin,buffd-calcium carb-mag
aspirin/calcium carbonate/magnesium	Buffered Aspirin
aspirin/calcium carbonate/magnesium	Bufferin
aspirin/calcium carbonate/magnesium	Bufferin Extra Strength
aspirin/calcium carbonate/magnesium	Tri-Buffered Aspirin
aspirin/calcium carbonate/magnesium/aluminum hydroxide	Ascriptin
aspirin/calcium carbonate/magnesium/aluminum hydroxide	Bayer Plus Extra Strength
aspirin/diphenhydramine/sodium bicarbonate/citric acid	Alka-Seltzer PM
aspirin/salicylamide/acetaminophen/caffeine	Levacet
aspirin/salicylamide/acetaminophen/caffeine	Pain Relief(with salicylamide)
aspirin/salicylamide/caffeine	Arthritis Strength BC Powder
aspirin/salicylamide/caffeine	BC Headache Powder
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Extra Strength
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Original
aspirin/sodium bicarbonate/citric acid	Antacid and Pain Relief
aspirin/sodium bicarbonate/citric acid	Efferves Pain Relief Antacid
aspirin/sodium bicarbonate/citric acid	Effervescent
aspirin/sodium bicarbonate/citric acid	Effervescent Antacid
aspirin/sodium bicarbonate/citric acid	Effervescent Pain Relief
aspirin/sodium bicarbonate/citric acid	Effervescent Pain Reliever
aspirin/sodium bicarbonate/citric acid	Medi-Seltzer
butalbital/aspirin/caffeine	Butalbital Compound
butalbital/aspirin/caffeine	butalbital-aspirin-caffeine
butalbital/aspirin/caffeine	Fiorinal
Diclofenac	
diclofenac potassium	Cambia
diclofenac potassium	Cataflam
diclofenac potassium	diclofenac potassium
diclofenac potassium	Zipsor
diclofenac sodium	diclofenac sodium
diclofenac sodium	diclofenac sodium (bulk)
diclofenac sodium	Dyloject
diclofenac sodium	Voltaren
diclofenac sodium	Voltaren-XR
diclofenac sodium, micronized	diclofenac sod, micro (bulk)
diclofenac sodium/capsaicin	Flexipak
diclofenac sodium/capsaicin	NuDiclo TabPAK

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

Generic Name	Brand Name
diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-50
diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-75
diclofenac sodium/capsicum oleoresin	DermaSilkRx DicloPak
diclofenac sodium/capsicum oleoresin	Inflammasin
diclofenac sodium/capsicum oleoresin	PrevidolRx Plus Analgesic Pak
diclofenac sodium/capsicum oleoresin	Xenaflamm
diclofenac sodium/lidocaine	Lidovix
diclofenac sodium/menthol/camphor	Inflatherm(diclofenac-menthol)
diclofenac sodium/misoprostol	Arthrotec 50
diclofenac sodium/misoprostol	Arthrotec 75
diclofenac sodium/misoprostol	diclofenac-misoprostol
diclofenac sodium/trolamine salicylate	Inflatherm (diclofenac-trolam)
diclofenac submicronized	Zorvolex
Flurbiprofen	
flurbiprofen	Ansaid
flurbiprofen	flurbiprofen
flurbiprofen	flurbiprofen (bulk)
Ibuprofen	
ibuprofen	Addaprin
ibuprofen	Advil
ibuprofen	Advil Junior Strength
ibuprofen	Advil Liqui-Gel
ibuprofen	Advil Migraine
ibuprofen	Caldolor
ibuprofen	Child Ibuprofen
ibuprofen	Children's Advil
ibuprofen	Children's Ibu-Drops
ibuprofen	Children's Ibuprofen
ibuprofen	Children's Medi-Profen
ibuprofen	Children's Motrin
ibuprofen	Children's Motrin Jr Strength
ibuprofen	Children's Profen IB
ibuprofen	IBU
ibuprofen	IBU-200
ibuprofen	Ibu-Drops
ibuprofen	ibuprofen
ibuprofen	ibuprofen (bulk)
ibuprofen	Ibuprofen IB
ibuprofen	Ibuprofen Jr Strength
ibuprofen	Infant's Advil
ibuprofen	Infants Ibu-Drops
ibuprofen	Infant's Ibuprofen
ibuprofen	Infant's Medi-Profen
ibuprofen	Infant's Motrin
ibuprofen	Infants ProfenIB
ibuprofen	I-Prin
ibuprofen	Medi-Profen
ibuprofen	Motrin
ibuprofen	Motrin IB
ibuprofen	Nuprin
ibuprofen	Provil
ibuprofen	Wal-Profen
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC400
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC800
ibuprofen/capsaicin/methyl salicylate/menthol	NuDroxiPAK I-800

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

Generic Name	Brand Name
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-60
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-90
ibuprofen/diphenhydramine citrate	Advil PM
ibuprofen/diphenhydramine citrate	Ibuprofen PM
ibuprofen/diphenhydramine citrate	ibuprofen-diphenhydramine cit
ibuprofen/diphenhydramine citrate	Motrin PM
ibuprofen/diphenhydramine HCl	Advil PM Liqui-Gels
ibuprofen/diphenhydramine HCl	Ibuprofen PM
ibuprofen/diphenhydramine HCl	ibuprofen-diphenhydramine HCl
ibuprofen/famotidine	Duexis
ibuprofen/irritants counter-irritants combination no.2	Comfort Pac-Ibuprofen
Indomethacin	
indomethacin	Indocin
indomethacin	indomethacin
indomethacin	indomethacin (bulk)
indomethacin, submicronized	indomethacin submicronized
indomethacin, submicronized	Tivorbex
Naproxen	
naproxen	EC-Naprosyn
naproxen	EC-Naproxen
naproxen	Naprosyn
naproxen	naproxen
naproxen sodium	Aleve
naproxen sodium	All Day Pain Relief
naproxen sodium	All Day Relief
naproxen sodium	Anaprox
naproxen sodium	Anaprox DS
naproxen sodium	Flanax (naproxen)
naproxen sodium	Mediproxen
naproxen sodium	Midol (naproxen)
naproxen sodium	Naprelan CR
naproxen sodium	Naprelan CR Dose Card
naproxen sodium	naproxen sodium
naproxen sodium	Wal-Proxen
naproxen sodium/diphenhydramine HCl	Aleve PM
naproxen sodium/diphenhydramine HCl	Naproxen PM
naproxen sodium/menthol	NaproPak Cool
naproxen/capsaicin/menthol	NaproPax
naproxen/capsaicin/menthol	NaproxenPax
naproxen/capsaicin/menthol/methyl salicylate	Pain Relief Collection
naproxen/dietary supplement,misc. cb.11	Theraproxen
naproxen/dietary supplement,misc. cb.11	Theraproxen-90
naproxen/esomeprazole magnesium	naproxen-esomeprazole
naproxen/esomeprazole magnesium	Vimovo
naproxen/irritant counter-irritant combination no.2	Comfort Pac-Naproxen
PSYCHOACTIVE DRUGS	
Amitriptyline	
amitriptyline HCl	amitriptyline
amitriptyline HCl	amitriptyline (bulk)
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amitriptyline HCl/chlordiazepoxide	Limbitrol
perphenazine/amitriptyline HCl	Duo-Vil 2-10
perphenazine/amitriptyline HCl	Duo-Vil 2-25
perphenazine/amitriptyline HCl	perphenazine-amitriptyline

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

Generic Name	Brand Name
Maprotiline	
maprotiline HCl	maprotiline
Trazodone	
trazodone HCl	Desyrel
trazodone HCl	Oleptro ER
trazodone HCl	trazodone
trazodone HCl	trazodone (bulk)
CARDIOVASCULAR AND DIURETIC DRUGS	
Acebutolol	
acebutolol HCl	acebutolol
acebutolol HCl	acebutolol (bulk)
acebutolol HCl	Sectral
Amiodarone	
amiodarone HCl	amiodarone
amiodarone HCl	amiodarone (bulk)
amiodarone HCl	Cordarone
amiodarone HCl	Pacerone
amiodarone HCl/dextrose 5 % in water	amiodarone in dextrose 5 %
amiodarone in dextrose, iso-osmotic	Nexterone
Atenolol	
atenolol	atenolol
atenolol	atenolol (bulk)
atenolol	Tenormin
atenolol/chlorthalidone	atenolol-chlorthalidone
atenolol/chlorthalidone	Tenoretic 100
atenolol/chlorthalidone	Tenoretic 50
Captopril	
captopril	captopril
captopril	captopril (bulk)
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
Diltiazem	
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem CD
diltiazem HCl	Cardizem LA
diltiazem HCl	Cartia XT
diltiazem HCl	Dilacor XR
diltiazem HCl	DILT-CD
diltiazem HCl	Diltia XT
diltiazem HCl	diltiazem HCl
diltiazem HCl	DILT-XR
diltiazem HCl	Diltzac ER
diltiazem HCl	Matzim LA
diltiazem HCl	Taztia XT
diltiazem HCl	Tiadyt ER
diltiazem HCl	Tiazac
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
diltiazem HCl/dextrose 5 % in water	diltiazem in dextrose 5 %
Furosemide	
furosemide	furosemide

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

Generic Name	Brand Name
furosemide	furosemide (bulk)
furosemide	Lasix
furosemide in 0.9 % sodium chloride	furosemide in 0.9 % NaCl
furosemide/dextrose 5 % in water	furosemide in dextrose 5 %
Guanethidine	
guanethidine sulfate	guanethidine sulfate (bulk)
Hydralazine	
hydralazine HCl	hydralazine
hydralazine HCl	hydralazine HCl (bulk)
isosorbide dinitrate/hydralazine HCl	BiDil
Hydrochlorothiazide	
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
amiloride HCl/hydrochlorothiazide	amiloride-hydrochlorothiazide
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
benazepril HCl/hydrochlorothiazide	Lotensin HCT
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	Ziac
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
enalapril maleate/hydrochlorothiazide	Vaseretic
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
hydrochlorothiazide	hydrochlorothiazide
hydrochlorothiazide	hydrochlorothiazide (bulk)
hydrochlorothiazide	Microzide
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
lisinopril/hydrochlorothiazide	Prinzide
lisinopril/hydrochlorothiazide	Zestoretic
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
methyl dopa/hydrochlorothiazide	methyl dopa-hydrochlorothiazide
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
moexipril HCl/hydrochlorothiazide	Uniretic
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
telmisartan/hydrochlorothiazide	Micardis HCT

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

Generic Name	Brand Name
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
triamterene/hydrochlorothiazide	Dyazide
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
Methyldopa	
methyldopa	methyldopa
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
methyldopate HCl	methyldopate
Procainamide	
procainamide HCl	procainamide
procainamide HCl	procainamide HCl (bulk)
Quinidine	
quinidine gluconate	quinidine gluconate
quinidine sulfate	Quinidex Extentabs
quinidine sulfate	quinidine sulfate
quinidine sulfate	quinidine sulfate (bulk)
Spirolactone	
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
spironolactone	spironolactone (bulk)
spironolactone, micronized	spironolactone micro (bulk)
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
BETA-ADRENERGIC RECEPTOR AGONISTS	
Beta-Adrenergic Receptor Agonists	
acclidinium bromide/formoterol fumarate	Duaklir Pressair
albuterol sulfate	AccuNeb
albuterol sulfate	albuterol sulfate
albuterol sulfate	albuterol sulfate (bulk)
albuterol sulfate	Proair Digihaler
albuterol sulfate	ProAir HFA
albuterol sulfate	ProAir RespiClick
albuterol sulfate	Proventil HFA
albuterol sulfate	Ventolin
albuterol sulfate	Ventolin HFA
albuterol sulfate	Vospire ER
arformoterol tartrate	Brovana
budesonide/formoterol fumarate	Symbicort
ephedrine sulfate	ephedrine sulfate
ephedrine sulfate/guaifenesin	Bronkaid Dual Action
epinephrine	Adrenalin
epinephrine	Bronchial Mist
epinephrine	Bronchial Mist Refill
epinephrine	epinephrine
epinephrine	Primatene Mist
epinephrine	Primatene Mist Refill
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone propionate/salmeterol xinafoate	Advair Diskus

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

Generic Name	Brand Name
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
formoterol fumarate	Foradil Aerolizer
formoterol fumarate	formoterol fumarate (bulk)
formoterol fumarate	Perforomist
formoterol fumarate dihydrate, micronized	formoterol fum dihyd,mic(bulk)
glycopyrrolate/formoterol fumarate	Bevespi Aerosphere
guaifenesin/theophylline anhydrous/pseudoephedrine	Broncomar-1
indacaterol maleate	Arcapta Neohaler
indacaterol maleate/glycopyrrolate	Utibron Neohaler
ipratropium bromide/albuterol sulfate	Combivent
ipratropium bromide/albuterol sulfate	Combivent Respimat
ipratropium bromide/albuterol sulfate	DuoNeb
ipratropium bromide/albuterol sulfate	ipratropium-albuterol
isoproterenol HCl	isoproterenol HCl
levalbuterol HCl	levalbuterol HCl
levalbuterol HCl	levalbuterol HCl (bulk)
levalbuterol HCl	Xopenex
levalbuterol HCl	Xopenex Concentrate
levalbuterol tartrate	levalbuterol tartrate
levalbuterol tartrate	Xopenex HFA
metaproterenol sulfate	metaproterenol
mometasone furoate/formoterol fumarate	Dulera
olodaterol HCl	Striverdi Respimat
pirbuterol acetate	Maxair Autohaler
racepinephrine HCl	Asthmanefrin Refill
racepinephrine HCl	Asthmanefrin Starter Kit
racepinephrine HCl	racepinephrine
racepinephrine HCl	racepinephrine (bulk)
racepinephrine HCl	S2 Racepinephrine
salmeterol xinafoate	Serevent Diskus
terbutaline sulfate	terbutaline
tiotropium bromide/olodaterol HCl	Stiolto Respimat
umeclidinium bromide/vilanterol trifenate	Anoro Ellipta
Terbutaline	
terbutaline sulfate	terbutaline
ANTICONVULSANTS	
Carbamazepine	
carbamazepine	carbamazepine
carbamazepine	carbamazepine (bulk)
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol
carbamazepine	Tegretol XR
Phenytoin	
phenytoin	Dilantin Infatabs
phenytoin	Dilantin-125
phenytoin	phenytoin
phenytoin sodium	phenytoin sodium
phenytoin sodium extended	Dilantin
phenytoin sodium extended	Dilantin Extended

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

Generic Name	Brand Name
phenytoin sodium extended	Dilantin Kapseal
phenytoin sodium extended	Phenytek
phenytoin sodium extended	phenytoin sodium extended
Sodium Valproate	
valproic acid	Depakene
valproic acid	Stavzor
valproic acid	valproic acid
valproic acid	valproic acid (bulk)
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)	valproate sodium (bulk)
valproic acid (as sodium salt) (valproate sodium)	valproic acid (as sodium salt)

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

This report executed the Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis (PSA) tools to assess the risk of cutaneous small-vessel vasculitis (CSVV) among patients with atrial fibrillation who are new users of warfarin or a direct oral anticoagulant (DOAC).

Query Period: October 19, 2010 - February 29, 2020
Coverage Requirement: Medical and drug coverage
Enrollment Requirement: 183 days
Enrollment Gap: 45 days
Sex: Male and Female
Age Groups: 21-64, 65-74, 75-84, 85-99 years

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin					
		Comparison 1		Comparison 2		Comparison 3	
Drug/Exposure Definition	Medical Product Exposure/Comparator	Rivaroxaban	Warfarin	Dabigatran	Warfarin	Apixaban	Warfarin
	Cohort Group Name	riv	war	dab	war	apix	war
	Incident with Respect to:	Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban		Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban		Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban	
	Washout (days)	-183		-183		-183	
	Incidence Assessment	Dispensing date or days supply		Dispensing date or days supply		Dispensing date or days supply	
	Cohort Definition	First valid incident exposure episode		First valid incident exposure episode		First valid incident exposure episode	
	Stockpile overlapping claims	Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date		Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date		Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date	
	Episode Gap (days)	3		3		3	
	Episode Extension Period (days)	3		3		3	
	Maximum Episode Duration	None		None		None	
	Tensor Criteria	Warfarin, Dabigatran, Apixaban, Edoxaban	Rivaroxaban, Dabigatran, Apixaban, Edoxaban	Warfarin, Rivaroxaban, Apixaban, Edoxaban	Rivaroxaban, Dabigatran, Apixaban, Edoxaban	Warfarin, Rivaroxaban, Dabigatran, Edoxaban	Rivaroxaban, Dabigatran, Apixaban, Edoxaban
		CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death		CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death		CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death	

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin					
		Comparison 1		Comparison 2		Comparison 3	
Inclusion/Exclusion	Pre-Existing Condition	Atrial fibrillation		Atrial fibrillation		Atrial fibrillation	
	Include/Exclude	Include		Include		Include	
	Lookback Period (days)	(-183, 0)		(-183, 0)		(-183, 0)	
	Care Setting	Any care setting		Any care setting		Any care setting	
	Pre-Existing Condition	Institutional stay		Institutional stay		Institutional stay	
	Include/Exclude	Exclude		Exclude		Exclude	
	Lookback Period (days)	(0, 0)		(0, 0)		(0, 0)	
	Care Setting	Non-acute institutional stay (IS)		Non-acute institutional stay (IS)		Non-acute institutional stay (IS)	
	Pre-Existing Condition	Dispensing of Warfarin, Dabigatran, Apixaban, Edoxaban on index date	Dispensing of Rivaroxaban, Dabigatran, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Apixaban, Edoxaban on index date	Dispensing of Rivaroxaban, Dabigatran, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Dabigatran, Edoxaban on index date	Dispensing of Rivaroxaban, Dabigatran, Apixaban, Edoxaban on index date
	Include/Exclude	Exclude		Exclude		Exclude	
	Lookback Period (days)	(0, 0)		0, 0		0, 0	
	Lookback Assessment	Evidence of dispensing date only		Evidence of dispensing date only		Evidence of dispensing date only	

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin		
		Comparison 1	Comparison 2	Comparison 3
Inclusion/Exclusion	Pre-Existing Condition	CSVV diagnosis: hypersensitivity angiitis, vasculitis of the skin, or allergic purpura	CSVV diagnosis: hypersensitivity angiitis, vasculitis of the skin, or allergic purpura	CSVV diagnosis: hypersensitivity angiitis, vasculitis of the skin, or allergic purpura
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)	Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)	Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)
	Pre-Existing Condition	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin		
		Comparison 1	Comparison 2	Comparison 3
Inclusion/Exclusion	Pre-Existing Condition	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Any cancer diagnosis	Any cancer diagnosis	Any cancer diagnosis
	Include/Exclude	Exclude	Exclude	Exclude
Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)	
Care Setting	Any care setting	Any care setting	Any care setting	

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin		
		Comparison 1	Comparison 2	Comparison 3
Inclusion/Exclusion	Pre-Existing Condition	Chemotherapy medications	Chemotherapy medications	Chemotherapy medications
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Kidney transplant or dialysis event	Kidney transplant or dialysis event	Kidney transplant or dialysis event
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting
	Pre-Existing Condition	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting
Event/Outcome	Event/Outcome	CSVV	CSVV	CSVV
	Definition	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis
	Care Setting	CSVV diagnosis only: Outpatient (ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA))	CSVV diagnosis only: Outpatient (ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA))	CSVV diagnosis only: Outpatient (ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA))
	Washout (days)	0	0	0
	Blackout Period	1 (index date)	1 (index date)	1 (index date)

Appendix K. Specifications Detailing Parameters to Define Cohort Entry and Propensity Score Analysis (PSA) in this Request

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. Warfarin		
		Comparison 1	Comparison 2	Comparison 3
Propensity Score Matching	Covariates	See Appendix A	See Appendix A	See Appendix A
	Matching Ratio	1:1	1:1	1:1
	Matching Caliper Settings	0.05	0.05	0.05
	Analysis Type	Unconditional and Conditional	Unconditional and Conditional	Unconditional and Conditional

International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Edition, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes are provided by Optum360. National Drug Codes are checked against First Data Bank's "FDB MedKnowledge®" database.

Specifications Defining Parameters for this Request (continued)

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. DOAC (Rivaroxaban, Dabigatran, Apixaban)											
		Comparison 4		Comparison 5		Comparison 6							
		Exposure/Comparator	Rivaroxaban	Dabigatran	Rivaroxaban	Apixaban	Dabigatran	Apixaban					
Drug/Exposure Definition	Cohort Group Name	riv		dab		riv		apix		dab		apix	
	Incident with Respect to:	Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban				Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban				Warfarin, Rivaroxaban, Dabigatran, Apixaban, Edoxaban			
	Washout (days)	-183				-183				-183			
	Incidence Assessment	Dispensing date or days supply				Dispensing date or days supply				Dispensing date or days supply			
	Cohort Definition	First valid incident exposure episode											
	Stockpile overlapping claims	Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date				Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date				Overlap > 33% will truncate the previous dispensing's days supply at the day prior to the next dispensing date			
	Episode Gap (days)	3											
	Episode Extension Period (days)	3											
	Maximum Episode Duration	None											
	Censor Criteria	Warfarin, Dabigatran, Apixaban, Edoxaban		Warfarin, Rivaroxaban, Apixaban, Edoxaban		Warfarin, Dabigatran, Apixaban, Edoxaban		Warfarin, Rivaroxaban, Dabigatran, Edoxaban		Warfarin, Rivaroxaban, Apixaban, Edoxaban		Warfarin, Rivaroxaban, Dabigatran, Edoxaban	
		CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death				CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death				CSVV outcome occurrence, end of study period, Data Partner end date, end of exposure episode, disenrollment, or death			

Specifications Defining Parameters for this Request (continued)

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. DOAC (Rivaroxaban, Dabigatran, Apixaban)					
		Comparison 4		Comparison 5		Comparison 6	
Inclusion/Exclusion	Pre-Existing Condition	Atrial fibrillation		Atrial fibrillation		Atrial fibrillation	
	Include/Exclude	Include		Include		Include	
	Lookback Period (days)	(-183, 0)		(-183, 0)		(-183, 0)	
	Care Setting	Any care setting		Any care setting		Any care setting	
	Pre-Existing Condition	Institutional stay		Institutional stay		Institutional stay	
	Include/Exclude	Exclude		Exclude		Exclude	
	Lookback Period (days)	(0, 0)		(0, 0)		(0, 0)	
	Care Setting	Non-acute institutional stay (IS)		Non-acute institutional stay (IS)		Non-acute institutional stay (IS)	
	Pre-Existing Condition	Dispensing of Warfarin, Dabigatran, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Dabigatran, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Dabigatran, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Apixaban, Edoxaban on index date	Dispensing of Warfarin, Rivaroxaban, Dabigatran, Edoxaban on index date
	Include/Exclude	Exclude		Exclude		Exclude	
	Lookback Period (days)	(0, 0)		(0, 0)		(0, 0)	
	Lookback Assessment	Evidence of dispensing date only		Evidence of dispensing date only		Evidence of dispensing date only	
Pre-Existing Condition	CSVV diagnosis: hypersensitivity angitis, vasculitis of the skin, or allergic purpura		CSVV diagnosis: hypersensitivity angitis, vasculitis of the skin, or allergic purpura		CSVV diagnosis: hypersensitivity angitis, vasculitis of the skin, or allergic purpura		
Include/Exclude	Exclude		Exclude		Exclude		
Lookback Period (days)	(-183, 0)		(-183, 0)		(-183, 0)		
Care Setting	Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)		Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)		Outpatient: ambulatory visits (AV), emergency department encounters (ED), other ambulatory visits (OA)		

Specifications Defining Parameters for this Request (continued)

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. DOAC (Rivaroxaban, Dabigatran, Apixaban)		
		Comparison 4	Comparison 5	Comparison 6
Inclusion/Exclusion	Pre-Existing Condition	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids	CSVV medication: oral or topical dispensing of prednisone, prednisolone, or other steroids
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia	Select autoimmune disorders: rheumatoid arthritis, lupus, Crohn's disease, Sjogren's syndrome, dermatomyositis, polymyositis, and cryoglobulinemia
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting
	Pre-Existing Condition	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab	Autoimmune condition medications: abatacept, adalimumab, azathioprine, certolizumab, colchicine, cyclophosphamide, cyclosporine, dapsone, dexamethasone, etanercept, golimumab, infliximab, intravenous immunoglobulins, leflunomide, methotrexate, prednisone, prednisolone, methylprednisolone, mycophenolate mofetil mycophenolic acid, prednisone, rituximab, tocilizumab
	Include/Exclude	Exclude	Exclude	Exclude
Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)	
Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only	

Specifications Defining Parameters for this Request (continued)

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. DOAC (Rivaroxaban, Dabigatran, Apixaban)		
		Comparison 4	Comparison 5	Comparison 6
Inclusion/Exclusion	Pre-Existing Condition	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone	Steroid medications: triamcinolone acetonide, clobetasol, dexamethasone, betamethasone
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Any cancer diagnosis	Any cancer diagnosis	Any cancer diagnosis
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting
	Pre-Existing Condition	Chemotherapy medications	Chemotherapy medications	Chemotherapy medications
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Lookback Assessment	Evidence of dispensing date only	Evidence of dispensing date only	Evidence of dispensing date only
	Pre-Existing Condition	Kidney transplant or dialysis event	Kidney transplant or dialysis event	Kidney transplant or dialysis event
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting

Specifications Defining Parameters for this Request (continued)

		DOAC (Rivaroxaban, Dabigatran, Apixaban) vs. DOAC (Rivaroxaban, Dabigatran, Apixaban)		
		Comparison 4	Comparison 5	Comparison 6
Inclusion/Exclusion	Pre-Existing Condition	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis	Potential alternative indication: deep vein thrombosis (DVT), pulmonary embolism (PE), joint replacement surgery prophylaxis
	Include/Exclude	Exclude	Exclude	Exclude
	Lookback Period (days)	(-183, 0)	(-183, 0)	(-183, 0)
	Care Setting	Any care setting	Any care setting	Any care setting
Event/Outcome	Event/Outcome	CSVV	CSVV	CSVV
	Definition	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis	Hypersensitivity angitis, vasculitis of the skin, or allergic purpura diagnosis <u>AND</u> oral or topical dispensing of prednisone, prednisolone, or other steroids within 90 days of diagnosis
	Care Setting	CSVV diagnosis only: Outpatient (AV, ED, OA)	CSVV diagnosis only: Outpatient (AV, ED, OA)	CSVV diagnosis only: Outpatient (AV, ED, OA)
	Washout (days)	0	0	0
	Blackout Period	1 (index date)	1 (index date)	1 (index date)
Propensity Score Matching	Covariates	See Appendix A	See Appendix A	See Appendix A
	Matching Ratio	1:1	1:1	1:1
	Matching Caliper Settings	0.05	0.05	0.05
	Analysis Type	Unconditional and Conditional	Unconditional and Conditional	Unconditional and Conditional
ICD-9-CM, ICD-10-CM, HCPCS, and CPT-4 codes are provided by Optum360. National Drug Codes are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."				

Appendix L. Baseline Covariates Evaluated in this Request

Covariate	Code Category	Evaluation Window
Age (continuous)*	--	Index date
Age group		
21-64	--	Index date
65-74	--	Index date
75-84	--	Index date
85-99	--	Index date
Sex*		
Male*	--	Index date
Female*	--	Index date
Race/Ethnicity		
American Indian or Alaska Native	--	Index date
Asian	--	Index date
Black or African American	--	Index date
Native Hawaiian or Other Pacific Islander	--	Index date
White	--	Index date
Unknown	--	Index date
Year		
2010	--	Index date
2011	--	Index date
2012	--	Index date
2013	--	Index date
2014	--	Index date
2015	--	Index date
2016	--	Index date
2017	--	Index date
2018	--	Index date
2019	--	Index date
2020	--	Index date
Dosage**	National Drug Code (NDC)	Index date
Combined comorbidity score*	--	-183 to 0
Autoimmune diseases*	Diagnosis	-183 to 0
Addison's disease	Diagnosis	-183 to 0
Autoimmune vasculitis	Diagnosis	-183 to 0
Celiac disease	Diagnosis	-183 to 0
Graves' disease	Diagnosis	-183 to 0
Hashimoto's thyroiditis	Diagnosis	-183 to 0
Inflammatory bowel disease	Diagnosis	-183 to 0
Multiple sclerosis	Diagnosis	-183 to 0
Myasthenia gravis	Diagnosis	-183 to 0
Pernicious anemia	Diagnosis	-183 to 0
Psoriatic arthritis	Diagnosis	-183 to 0
Type 1 diabetes	Diagnosis	-183 to 0
Hematological blood disorders*	Diagnosis	-183 to 0
Anemia	Diagnosis	-183 to 0
Hemophilia	Diagnosis	-183 to 0
Leukemia	Diagnosis	-183 to 0
Lymphoma	Diagnosis	-183 to 0
Myelodysplastic syndrome	Diagnosis	-183 to 0
Myeloma	Diagnosis	-183 to 0
Sickle cell disease	Diagnosis	-183 to 0
Von Willebrand disease	Diagnosis	-183 to 0
Viral infections*	Diagnosis	-183 to 0
Hepatitis B	Diagnosis	-183 to 0
Hepatitis C	Diagnosis	-183 to 0
Human immunodeficiency virus	Diagnosis	-183 to 0
Bacterial infections*	Diagnosis	-183 to 0
Chronic bacteremia	Diagnosis	-183 to 0

Appendix L. Baseline Covariates Evaluated in this Request

Covariate	Code Category	Evaluation Window
Anti-infectives*	NDC	-183 to 0
Acyclovir	NDC	-183 to 0
Ampicillin	NDC	-183 to 0
Cephalosporin	NDC	-183 to 0
Chloramphenicol	NDC	-183 to 0
Ciprofloxacin	NDC	-183 to 0
Clindamycin	NDC	-183 to 0
Doxycycline	NDC	-183 to 0
Gentamicin	NDC	-183 to 0
Griseofulvin	NDC	-183 to 0
Isoniazid	NDC	-183 to 0
Ofloxacin	NDC	-183 to 0
Penicillin	NDC	-183 to 0
Rifampicin	NDC	-183 to 0
Trimethoprim-sulfamethoxazole	NDC	-183 to 0
Zidovudine	NDC	-183 to 0
Nonsteroidal anti-inflammatory drugs*	NDC	-183 to 0
Acetylsalicylic acid	NDC	-183 to 0
Diclofenac	NDC	-183 to 0
Flurbiprofen	NDC	-183 to 0
Ibuprofen	NDC	-183 to 0
Indomethacin	NDC	-183 to 0
Naproxen	NDC	-183 to 0
Psychoactive drugs*	NDC	-183 to 0
Amitriptyline	NDC	-183 to 0
Maprotiline	NDC	-183 to 0
Trazodone	NDC	-183 to 0
Cardiovascular and diuretic drugs*	NDC	-183 to 0
Acebutolol	NDC	-183 to 0
Amiodarone	NDC	-183 to 0
Atenolol	NDC	-183 to 0
Captopril	NDC	-183 to 0
Diltiazem	NDC	-183 to 0
Furosemide	NDC	-183 to 0
Guanethidine	NDC	-183 to 0
Hydralazine	NDC	-183 to 0
Hydrochlorothiazide	NDC	-183 to 0
Methyldopa	NDC	-183 to 0
Procainamide	NDC	-183 to 0
Quinidine	NDC	-183 to 0
Spirolactone	NDC	-183 to 0
Beta-adrenergic receptor agonists*	NDC	-183 to 0
Terbutaline	NDC	-183 to 0
Anticonvulsants*	NDC	-183 to 0
Carbamazepine	NDC	-183 to 0
Phenytoin	NDC	-183 to 0
Sodium valproate	NDC	-183 to 0

Appendix L. Baseline Covariates Evaluated in this Request

Covariate	Code Category	Evaluation Window
Health care utilization		
Number of inpatient hospital stays	--	-183 to 0
Number of emergency department visits	--	-183 to 0
Number of institutional stay visits	--	-183 to 0
Number of ambulatory visits	--	-183 to 0
Number of other ambulatory visits	--	-183 to 0
Drug utilization		
Number of unique dispensings	--	-183 to 0
Number of unique generics dispensed	--	-183 to 0
Number of unique drug classes dispensed	--	-183 to 0

Covariates followed by an asterisk () are included in the adjusted propensity score analysis (PSA); rows without an asterisk (*) are baseline characteristics only and are not included in the adjusted PSA.

**Dosage:

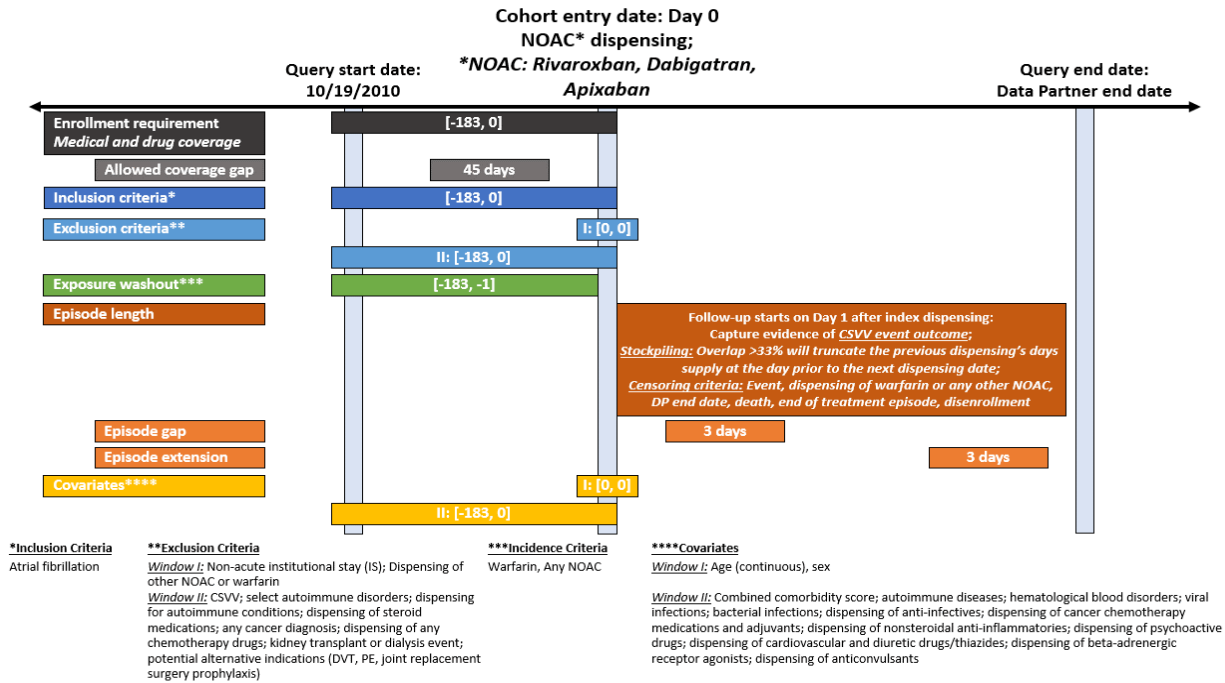
Rivaroxaban: 2.5mg, 10mg, 15mg, 20mg

Dabigatran: 75mg, 110mg, 150mg

Apixaban: 2.5mg, 5mg

Warfarin: 1mg, 2mg, 2.5mg, 3mg, 4mg, 5mg, 6mg, 7.5mg, 10mg

Appendix M. Diagram Detailing the Design of this Request



Appendix M. Diagram Detailing the Design of this Request

