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

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

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

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Overview for Request: cder_mpl1r_wp279

Request ID: cder_mpl1r_wp279

Request Description: In this report, we characterized dispensing patterns of newly initiated baricitinib indicated for alopecia, ritlecitinib indicated for alopecia, and upadacitinib indicated for Crohn's disease, ulcerative colitis, and inflammatory bowel disease, stratified by age and sex in the Sentinel Distributed Database (SDD).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 13.1.2

Data Source: We distributed this request to 5 Sentinel Data Partners on August 6, 2024. The study period included available data from March 1, 2022 to January 31, 2024. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: We identified individuals newly initiating baricitinib indicated for alopecia (baricitinib cohort), ritlecitinib indicated for alopecia (ritlecitinib cohort), and upadacitinib indicated for Crohn's disease (upadacitinib for Crohn's disease cohort), ulcerative colitis (upadacitinib for ulcerative colitis cohort), and inflammatory bowel disease (upadacitinib for inflammatory bowel disease cohort) (a total of five cohorts). In each cohort, we described demographic and clinical characteristics for individuals initiating each evaluated medical product based on history recorded in the six months prior to initiation of treatment. The analyses characterized dispensing patterns by examining cumulative exposure episode durations, first exposure episode durations, all exposure episode durations, days supplied per dispensing, and average filled daily doses in each treatment episode and in the first treatment episode, overall and stratified by age and sex. This was a Type 5 analysis in the Query Request Package (QRP) documentation.

Exposures of Interest: We defined the exposure of interest including baricitinib, ritlecitinib, and upadacitinib, using National Drug Codes (NDCs). The date of the first qualifying medical product dispensing was defined as the index date. For each cohort, incident use was defined as no use of the same evaluated medical product in the 183 days prior to the index date. Individuals were allowed to contribute more than one exposure episode to the analysis over the cohort selection period and only the first valid exposure episode's incidence was assessed using washout criteria. We considered two consecutive dispensings with a gap of 30 days or less as part of the same treatment episode. We added 60 days of treatment for baricitinib and ritlecitinib cohorts and 30 days of treatment for upadacitinib cohorts to the last pharmacy dispensing in sequence. In each cohort, treatment episodes were censored on the earliest of the exposure episode end, disenrollment, death, query end date, and Data Partner end date. Baricitinib and ritlecitinib episodes were further censored on initiation of a different Janus kinase inhibitor (including ritlecitinib for baricitinib episodes and including baricitinib for ritlecitinib episodes), methotrexate, azathioprine, or cyclosporine while upadacitinib episodes were also censored on initiation of non-upadacitinib biologics or small molecules.

Please see Appendix B for proprietary and nonproprietary names of medical products used to define the exposure. Please see Appendix C for proprietary and non-proprietary names of medical products used to define the exposure censoring criteria. Please see Appendix D for a list of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, and Healthcare Common Procedure Coding System (HCPCS) procedure codes used to define their censoring criteria in this request.

Overview for Request: cder_mpl1r_wp279

Cohort Eligibility Criteria: We defined index exposure as the first qualifying administration or dispensing of a given evaluated medical product to an individual during the query period. We required individuals to be enrolled in health plans with both medical and drug coverage for at least 183 days prior to their index exposure, during which gaps in coverage of up to 45 days were allowed. The following age groups were included: 0-17, 18-44, 45-64, and ≥ 65 years. For the baricitinib and ritlecitinib cohorts, we required evidence of alopecia, defined as at least one diagnosis code in ambulatory visit (AV), emergency department (ED) or other ambulatory visit (OA) setting, and we excluded episodes with evidence of rheumatoid arthritis, defined as at least one diagnosis code in any care setting. For all three upadacitinib cohorts, we excluded episodes with evidence of atopic dermatitis, psoriatic arthritis, rheumatoid arthritis, or ankylosing spondylitis and other inflammatory spondyloarthropathies in any care setting or having hospital discharge (in the 84 days prior to and including the index date). In the upadacitinib for Crohn's disease cohort, we also required evidence of Crohn's disease in the AV, ED, or OA settings and not having evidence of ulcerative colitis in any care setting. In the upadacitinib for ulcerative colitis cohort, we required evidence of ulcerative colitis in the AV, ED, or OA settings and not having evidence of Crohn's disease in any care setting. In the upadacitinib for inflammatory bowel disease cohort, we required evidence of Crohn's disease, ulcerative colitis, or indeterminate colitis in the AV, ED, or OA settings. Except the hospital discharge exclusion, all inclusion and exclusion criteria were assessed in the 183 days prior to and including the index date. Please see Appendices E and F for a list of diagnosis codes used to define inclusion and exclusion criteria.

Baseline Characteristics: We described demographic characteristics such as sex, age, race, Hispanic origin, and calendar year on the index of each evaluated exposure of interest. We also described those following clinical characteristics based on history recorded in the six months prior to the index exposure: asthma, inflammatory bowel disease, atopic dermatitis (for baricitinib and ritlecitinib cohorts only), psoriatic arthritis (for baricitinib and ritlecitinib cohorts only), lupus erythematosus, vitiligo, systemic connective tissue disorders, ankylosing spondylitis and other inflammatory spondylopathies (for baricitinib and ritlecitinib cohorts only), deep vein thrombosis, pulmonary embolism, orthopedic surgery of hip or knee, cirrhosis or cirrhosis-related complication, other medical conditions (including acute myocardial infarction, diabetes, hyperlipidemia, hypertension, depression, ischemic heart disease, stroke/transient ischemic attack, chronic kidney disease, chronic obstructive pulmonary disease (COPD) and bronchiectasis), number of other medical conditions, and health service utilization intensity metrics. For the baricitinib and ritlecitinib cohorts, we also evaluated indication severity including alopecia (capitis) totalis and alopecia universalis. We also measured the average daily dose of the first dispensing for baricitinib and upadacitinib cohorts. International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, HCPCS procedure codes, and Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes were used to define the clinical characteristics. Please see Appendix G for a list of diagnosis codes and Appendix H for a list of procedure codes used to define baseline characteristics in this request.

Please refer to Appendices I and J for the specifications of parameters used in this request and design diagram used in this request.

Limitations: Algorithms used to define exposures and inclusion criteria are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*All terms may not be used in this report

Table 1a. Aggregated Characteristics of Baricitinib for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Baricitinib for Alopecia		
Patient Characteristics	Number	Percent
Unique patients	1,140	N/A ¹
Demographic Characteristics	Mean	Standard Deviation
Age (years)	42.1	14.6
	Number	Percent
Age		
0-17 years	44	3.9%
18-44 years	621	54.5%
45-64 years	355	31.1%
≥ 65 years	120	10.5%
Sex		
Female	741	65.0%
Male	399	35.0%
Race ²		
American Indian or Alaska Native	*****	*****
Asian	51	4.5%
Black or African American	81	7.1%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.0%
Unknown	578	50.7%
White	399	35.0%
Hispanic origin		
Yes	27	2.4%
No	429	37.6%
Unknown	684	60.0%
Year		
2022	*****	*****
2023	659	57.8%
2024	*****	*****
Health Characteristics		
Asthma	75	6.6%
Noninfective enteritis and colitis (IBD)	26	2.3%
Atopic dermatitis	115	10.1%
Psoriatic arthritis	47	4.1%
Lupus erythematosus	*****	*****
Vitiligo	22	1.9%
Systemic connective tissue disorders	39	3.4%
Ankylosing spondylitis and other inflammatory spondylopathies	18	1.6%
Deep vein thrombosis	*****	*****

Table 1a. Aggregated Characteristics of Baricitinib for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Baricitinib for Alopecia		
Patient Characteristics	Number	Percent
Pulmonary embolism	*****	*****
Orthopedic surgery of hip or knee	*****	*****
Cirrhosis or cirrhosis-related complication	*****	*****
Other Medical conditions		
Acute Myocardial Infarction	0	0.0%
Diabetes	36	3.2%
Hyperlipidemia	112	9.8%
Hypertension	98	8.6%
Depression	183	16.1%
Ischemic Heart Disease	14	1.2%
Stroke/Transient Ischemic Attack	0	0.0%
Chronic Kidney Disease	11	1.0%
COPD and Bronchiectasis	*****	*****
Number of Other Medical Conditions		
0	810	71.1%
1	235	20.6%
2-9	95	8.3%
Severity Indicators		
Alopecia (capitis) totalis	191	16.8%
Alopecia universalis	234	20.5%
Average Daily Dose of the First Dispensing		
Baricitinib ≤ 2 mg	702	61.6%
Baricitinib > 2 to 4 mg	*****	*****
Baricitinib > 4 to 8 mg	*****	*****
Baricitinib > 8 mg	0	0.0%
Health Service Utilization Intensity Metrics		
	Mean	Standard Deviation
Mean number of ambulatory encounters	8.8	7.7
Mean number of emergency room encounters	0.1	0.5
Mean number of inpatient hospital encounters	0.0	0.1
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	2.2	3.1
Mean number of filled prescriptions	11.1	11.8
Mean number of non-proprietary drugs dispensed	5.6	4.1
Mean number of unique drug classes dispensed	5.4	3.8

¹N/A stands for Not Applicable.

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

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

Table 1b. Aggregated Characteristics of Ritlecitinib for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Ritlecitinib for Alopecia	
Patient Characteristics	Number	Percent
Unique patients	97	N/A ¹
Demographic Characteristics	Mean	Standard Deviation
Age (years)	30.5	16.9
	Number	Percent
Age		
0-17 years	45	46.4%
18-44 years	25	25.8%
45-64 years	*****	*****
≥ 65 years	*****	*****
Sex		
Female	52	53.6%
Male	45	46.4%
Race ²		
American Indian or Alaska Native	0	0.0%
Asian	*****	*****
Black or African American	*****	*****
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.0%
Unknown	32	33.0%
White	42	43.3%
Hispanic origin		
Yes	*****	*****
No	*****	*****
Unknown	58	59.8%
Year		
2022	0	0.0%
2023	*****	*****
2024	*****	*****
Health Characteristics		
Asthma	*****	*****
Noninfective enteritis and colitis (IBD)	*****	*****
Atopic dermatitis	15	15.5%
Psoriatic arthritis	*****	*****
Lupus erythematosus	0	0.0%
Vitiligo	*****	*****
Systemic connective tissue disorders	*****	*****
Ankylosing spondylitis and other inflammatory spondylopathies	0	0.0%
Deep vein thrombosis	0	0.0%
Pulmonary embolism	0	0.0%

Table 1b. Aggregated Characteristics of Ritlecitinib for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Patient Characteristics	Ritlecitinib for Alopecia	
	Number	Percent
Orthopedic surgery of hip or knee	0	0.0%
Cirrhosis or cirrhosis-related complication	0	0.0%
Other Medical conditions		
Acute Myocardial Infarction	0	0.0%
Diabetes	*****	*****
Hyperlipidemia	*****	*****
Hypertension	*****	*****
Depression	12	12.4%
Ischemic Heart Disease	0	0.0%
Stroke/Transient Ischemic Attack	0	0.0%
Chronic Kidney Disease	0	0.0%
COPD and Bronchiectasis	0	0.0%
Number of Other Medical Conditions		
0	78	80.4%
1	*****	*****
2-9	*****	*****
Severity Indicators		
Alopecia (capitis) totalis	13	13.4%
Alopecia universalis	33	34.0%
Health Service Utilization Intensity Metrics		
	Mean	Standard Deviation
Mean number of ambulatory encounters	8.8	7.0
Mean number of emergency room encounters	0.1	0.4
Mean number of inpatient hospital encounters	0.0	0.1
Mean number of non-acute institutional encounters	0.0	NaN ³
Mean number of other ambulatory encounters	2.1	5.3
Mean number of filled prescriptions	9.6	9.0
Mean number of non-proprietary drugs dispensed	5.4	3.8
Mean number of unique drug classes dispensed	5.1	3.5

¹N/A stands for Not Applicable.

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

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

³Data represented by NaN (Not a Number) is due to their inability to be calculated.

Table 1c. Aggregated Characteristics of Upadacitinib for Crohn's Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Upadacitinib for Crohn's Disease	
Patient Characteristics	Number	Percent
Unique patients	546	N/A ¹
Demographic Characteristics	Mean	Standard Deviation
Age (years)	44.8	14.9
	Number	Percent
Age		
0-17 years	14	2.6%
18-44 years	271	49.6%
45-64 years	184	33.7%
≥ 65 years	77	14.1%
Sex		
Female	283	51.8%
Male	263	48.2%
Race ²		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	24	4.4%
Multi-racial	14	2.6%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	179	32.8%
White	317	58.1%
Hispanic origin		
Yes	11	2.0%
No	281	51.5%
Unknown	254	46.5%
Year		
2022	*****	*****
2023	486	89.0%
2024	*****	*****
Health Characteristics		
Asthma	39	7.1%
Noninfective enteritis and colitis (IBD)	545	99.8%
Lupus erythematosus	0	0.0%
Vitiligo	*****	*****
Systemic connective tissue disorders	*****	*****
Deep vein thrombosis	*****	*****
Pulmonary embolism	*****	*****
Orthopedic surgery of hip or knee	*****	*****
Cirrhosis or cirrhosis-related complication	*****	*****
Other Medical conditions		

Table 1c. Aggregated Characteristics of Upadacitinib for Crohn's Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Patient Characteristics	Upadacitinib for Crohn's Disease	
	Number	Percent
Acute Myocardial Infarction	*****	*****
Diabetes	28	5.1%
Hyperlipidemia	69	12.6%
Hypertension	85	15.6%
Depression	128	23.4%
Ischemic Heart Disease	25	4.6%
Stroke/Transient Ischemic Attack	*****	*****
Chronic Kidney Disease	17	3.1%
COPD and Bronchiectasis	12	2.2%
Number of Other Medical Conditions		
0	327	59.9%
1	127	23.3%
2-9	92	16.8%
Average Daily Dose of the First Dispensing		
Upadacitinib ≤ 15 mg	*****	*****
Upadacitinib > 15 to 30 mg	66	12.1%
Upadacitinib > 30 to 45 mg	456	83.5%
Upadacitinib > 45 mg	*****	*****
Health Service Utilization Intensity Metrics		
	Mean	Standard Deviation
Mean number of ambulatory encounters	12.6	9.2
Mean number of emergency room encounters	0.4	1.0
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.0
Mean number of other ambulatory encounters	4.1	7.1
Mean number of filled prescriptions	19.5	15.1
Mean number of non-proprietary drugs dispensed	8.8	4.9
Mean number of unique drug classes dispensed	8.4	4.5

¹N/A stands for Not Applicable.

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

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

Table 1d. Aggregated Characteristics of Upadacitinib for Ulcerative Colitis in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Upadacitinib for Ulcerative Colitis		
Patient Characteristics	Number	Percent
Unique patients	1,499	N/A ¹
Demographic Characteristics	Mean	Standard Deviation
Age (years)	46.0	14.2
	Number	Percent
Age		
0-17 years	19	1.3%
18-44 years	739	49.3%
45-64 years	489	32.6%
≥ 65 years	252	16.8%
Sex		
Female	639	42.6%
Male	860	57.4%
Race ²		
American Indian or Alaska Native	*****	*****
Asian	32	2.1%
Black or African American	52	3.5%
Multi-racial	*****	*****
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	662	44.2%
White	714	47.6%
Hispanic origin		
Yes	47	3.1%
No	680	45.4%
Unknown	772	51.5%
Year		
2022	562	37.5%
2023	925	61.7%
2024	12	0.8%
Health Characteristics		
Asthma	92	6.1%
Noninfective enteritis and colitis (IBD)	1,496	99.8%
Lupus erythematosus	*****	*****
Vitiligo	*****	*****
Systemic connective tissue disorders	22	1.5%
Deep vein thrombosis	*****	*****
Pulmonary embolism	*****	*****
Orthopedic surgery of hip or knee	*****	*****
Cirrhosis or cirrhosis-related complication	*****	*****
Other Medical conditions		

Table 1d. Aggregated Characteristics of Upadacitinib for Ulcerative Colitis in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Upadacitinib for Ulcerative Colitis		
Patient Characteristics	Number	Percent
Acute Myocardial Infarction	*****	*****
Diabetes	103	6.9%
Hyperlipidemia	212	14.1%
Hypertension	221	14.7%
Depression	209	13.9%
Ischemic Heart Disease	57	3.8%
Stroke/Transient Ischemic Attack	*****	*****
Chronic Kidney Disease	32	2.1%
COPD and Bronchiectasis	24	1.6%
Number of Other Medical Conditions		
0	986	65.8%
1	308	20.5%
2-9	205	13.3%
Average Daily Dose of the First Dispensing		
Upadacitinib ≤ 15 mg	*****	*****
Upadacitinib > 15 to 30 mg	191	12.7%
Upadacitinib > 30 to 45 mg	1,213	80.9%
Upadacitinib > 45 mg	*****	*****
Health Service Utilization Intensity Metrics		
	Mean	Standard Deviation
Mean number of ambulatory encounters	11.2	8.0
Mean number of emergency room encounters	0.3	0.7
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.5	4.2
Mean number of filled prescriptions	16.9	12.5
Mean number of non-proprietary drugs dispensed	7.9	4.4
Mean number of unique drug classes dispensed	7.5	4.0

¹N/A stands for Not Applicable.

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

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

Table 1e. Aggregated Characteristics of Upadacitinib for Inflammatory Bowel Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Upadacitinib for Inflammatory Bowel Disease		
Patient Characteristics	Number	Percent
Unique patients	2,404	N/A ¹
Demographic Characteristics	Mean	Standard Deviation
Age (years)	45.4	14.5
	Number	Percent
Age		
0-17 years	45	1.9%
18-44 years	1,200	49.9%
45-64 years	772	32.1%
≥ 65 years	387	16.1%
Sex		
Female	1,084	45.1%
Male	1,320	54.9%
Race ²		
American Indian or Alaska Native	*****	*****
Asian	50	2.1%
Black or African American	89	3.7%
Multi-racial	51	2.1%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	980	40.8%
White	1,222	50.8%
Hispanic origin		
Yes	70	2.9%
No	1,132	47.1%
Unknown	1,202	50.0%
Year		
2022	719	29.9%
2023	1,659	69.0%
2024	26	1.1%
Health Characteristics		
Asthma	166	6.9%
Noninfective enteritis and colitis (IBD)	2,400	99.8%
Lupus erythematosus	*****	*****
Vitiligo	*****	*****
Systemic connective tissue disorders	38	1.6%
Deep vein thrombosis	18	0.7%
Pulmonary embolism	13	0.5%
Orthopedic surgery of hip or knee	*****	*****
Cirrhosis or cirrhosis-related complication	*****	*****
Other Medical conditions		

Table 1e. Aggregated Characteristics of Upadacitinib for Inflammatory Bowel Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

Upadacitinib for Inflammatory Bowel Disease		
Patient Characteristics	Number	Percent
Acute Myocardial Infarction	*****	*****
Diabetes	161	6.7%
Hyperlipidemia	338	14.1%
Hypertension	371	15.4%
Depression	402	16.7%
Ischemic Heart Disease	102	4.2%
Stroke/Transient Ischemic Attack	*****	*****
Chronic Kidney Disease	58	2.4%
COPD and Bronchiectasis	45	1.9%
Number of Other Medical Conditions		
0	1,536	63.9%
1	505	21.0%
2-9	363	14.5%
Average Daily Dose of the First Dispensing		
Upadacitinib ≤ 15 mg	121	5.0%
Upadacitinib > 15 to 30 mg	303	12.6%
Upadacitinib > 30 to 45 mg	1,969	81.9%
Upadacitinib > 45 mg	11	0.5%
Health Service Utilization Intensity Metrics		
	Mean	Standard Deviation
Mean number of ambulatory encounters	12.0	8.5
Mean number of emergency room encounters	0.3	0.8
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.7	5.2
Mean number of filled prescriptions	17.9	13.3
Mean number of non-proprietary drugs dispensed	8.3	4.6
Mean number of unique drug classes dispensed	7.9	4.2

¹N/A stands for Not Applicable.

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

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

Table 2a. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		0-30 Days		31-60 Days		61-90 Days		91+ Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
<i>Baricitinib for Alopecia</i>	6,152	6,041	98.2%	*****	*****	81	1.3%	*****	*****
<i>Ritlecitinib for Alopecia</i>	205	*****	*****	*****	*****	0	0.0%	0	0.0%
<i>Upadacitinib for Crohn's Disease</i>	1,561	1,531	98.1%	*****	*****	*****	*****	0	0.0%
<i>Upadacitinib for Ulcerative Colitis</i>	7,951	7,682	96.6%	159	2.0%	110	1.4%	0	0.0%
<i>Upadacitinib for Inflammatory Bowel Disease</i>	11,172	10,826	96.9%	210	1.9%	136	1.2%	0	0.0%

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Table 2a. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Distribution of Days Supplied by Dispensing						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>	1	30	30	30	150	29.0	9.3
<i>Ritlecitinib for Alopecia</i>	2	20	28	28	44	23.0	8.2
<i>Upadacitinib for Crohn's Disease</i>	1	26	28	30	90	25.3	9.4
<i>Upadacitinib for Ulcerative Colitis</i>	1	28	30	30	90	28.6	10.1
<i>Upadacitinib for Inflammatory Bowel Disease</i>	1	28	30	30	90	28.0	10.0

Table 2b. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		0-30 Days		31-60 Days		61-90 Days		91+ Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
Baricitinib for Alopecia	6,152	6,041	100.0%	*****	100.0%	81	100.0%	*****	100.0%
Female	4,024	3,946	65.3%	*****	*****	59	72.8%	*****	100.0%
Male	2,128	2,095	34.7%	11	*****	22	27.2%	0	0.0%
Ritlecitinib for Alopecia	205	*****	100.0%	*****	100.0%	0	NaN	0	NaN
Female	110	110	*****	0	0.0%	0	NaN	0	NaN
Male	95	*****	*****	*****	100.0%	0	NaN	0	NaN
Upadacitinib for Crohn's Disease	1,561	1,531	100.0%	*****	100.0%	*****	100.0%	0	NaN
Female	733	717	46.8%	*****	*****	*****	*****	0	NaN
Male	828	814	53.2%	*****	*****	*****	*****	0	NaN
Upadacitinib for Ulcerative Colitis	7,951	7,682	100.0%	159	100.0%	110	100.0%	0	NaN
Female	3,283	3,178	41.4%	64	40.3%	41	37.3%	0	NaN
Male	4,668	4,504	58.6%	95	59.7%	69	62.7%	0	NaN
Upadacitinib for Inflammatory Bowel Disease	11,172	10,826	100.0%	210	100.0%	136	100.0%	0	NaN
Female	4,723	4,573	42.2%	91	43.3%	59	43.4%	0	NaN
Male	6,449	6,253	57.8%	119	56.7%	77	56.6%	0	NaN

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

NaN: Not a Number

Table 2b. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Distribution of Days Supplied by Dispensing						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	30	30	30	150	29.0	9.3
Female	1	30	30	30	150	29.1	9.6
Male	1	30	30	30	90	28.6	8.7
Ritlecitinib for Alopecia	2	20	28	28	44	23.0	8.2
Female	2	20	28	28	28	23.0	7.8
Male	2	20	28	28	44	22.9	8.7
Upadacitinib for Crohn's Disease	1	26	28	30	90	25.3	9.4
Female	1	24	28	30	84	25.0	9.6
Male	1	28	28	30	90	25.5	9.3
Upadacitinib for Ulcerative Colitis	1	28	30	30	90	28.6	10.1
Female	1	28	30	30	90	28.5	9.7
Male	1	28	30	30	90	28.6	10.4
Upadacitinib for Inflammatory Bowel Disease	1	28	30	30	90	28.0	10.0
Female	1	28	30	30	90	27.9	10.0
Male	1	28	30	30	90	28.1	10.0

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Table 2c. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the SDD from March 1, 2022 to January 31, 2024, by Age Group

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		0-30 Days		31-60 Days		61-90 Days		91+ Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
Baricitinib for Alopecia	6,152	6,041	100.0%	*****	100.0%	81	100.0%	*****	100.0%
0-17 years	228	*****	*****	*****	*****	0	0.0%	0	0.0%
18-44 years	3,326	3,298	54.6%	*****	*****	*****	*****	*****	100.0%
45-64 years	2,071	2,020	33.4%	*****	*****	*****	*****	0	0.0%
≥ 65 years	527	*****	*****	*****	*****	19	23.5%	0	0.0%
Ritlecitinib for Alopecia	205	*****	100.0%	*****	100.0%	0	NaN	0	NaN
0-17 years	110	*****	*****	*****	100.0%	0	NaN	0	NaN
18-44 years	54	54	*****	0	0.0%	0	NaN	0	NaN
45-64 years	*****	*****	*****	0	0.0%	0	NaN	0	NaN
≥ 65 years	*****	*****	*****	0	0.0%	0	NaN	0	NaN
Upadacitinib for Crohn's Disease	1,561	1,531	100.0%	*****	100.0%	*****	100.0%	0	NaN
0-17 years	34	34	2.2%	0	0.0%	0	0.0%	0	NaN
18-44 years	835	824	53.8%	*****	*****	*****	*****	0	NaN
45-64 years	475	*****	*****	*****	*****	*****	*****	0	NaN
≥ 65 years	217	*****	*****	*****	*****	*****	*****	0	NaN
Upadacitinib for Ulcerative Colitis	7,951	7,682	100.0%	159	100.0%	110	100.0%	0	NaN
0-17 years	61	*****	*****	*****	*****	0	0.0%	0	NaN
18-44 years	3,862	3,715	48.4%	98	61.6%	49	44.5%	0	NaN
45-64 years	2,752	2,690	35.0%	*****	*****	*****	*****	0	NaN
≥ 65 years	1,276	*****	*****	*****	*****	*****	*****	0	NaN
Upadacitinib for Inflammatory Bowel Disease	11,172	10,826	100.0%	210	100.0%	136	100.0%	0	NaN
0-17 years	161	*****	*****	*****	*****	0	0.0%	0	NaN
18-44 years	5,616	5,430	50.2%	121	57.6%	65	47.8%	0	NaN
45-64 years	3,648	3,566	32.9%	*****	*****	*****	*****	0	NaN
≥ 65 years	1,747	*****	*****	*****	*****	*****	*****	0	NaN

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

NaN: Not a Number

Table 2c. Categorical and Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the SDD from March 1, 2022 to January 31, 2024, by Age Group

	Distribution of Days Supplied by Dispensing						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	30	30	30	150	29.0	9.3
0-17 years	1	30	30	30	48	28.1	6.3
18-44 years	1	30	30	30	150	28.4	8.0
45-64 years	1	30	30	30	90	29.5	10.2
≥ 65 years	1	30	30	30	90	30.7	13.3
Ritlecitinib for Alopecia	2	20	28	28	44	23.0	8.2
0-17 years	3	22	28	28	44	24.2	7.6
18-44 years	2	12	28	28	28	21.6	9.1
45-64 years	6	15	25	28	28	21.4	8.0
≥ 65 years	9	11	28	28	28	22.9	8.8
Upadacitinib for Crohn's Disease	1	26	28	30	90	25.3	9.4
0-17 years	2	18	28	30	30	23.1	8.9
18-44 years	1	28	28	30	90	25.4	9.3
45-64 years	1	22	28	30	90	24.6	9.6
≥ 65 years	2	28	28	30	84	26.6	9.6
Upadacitinib for Ulcerative Colitis	1	28	30	30	90	28.6	10.1
0-17 years	1	24	28	30	58	25.4	11.7
18-44 years	1	28	30	30	90	28.6	10.1
45-64 years	1	28	30	30	90	28.3	9.4
≥ 65 years	1	28	30	30	90	29.4	11.4
Upadacitinib for Inflammatory Bowel Disease	1	28	30	30	90	28.0	10.0
0-17 years	1	26	28	30	58	25.5	9.7
18-44 years	1	28	30	30	90	28.0	10.0
45-64 years	1	28	30	30	90	27.6	9.4
≥ 65 years	1	28	30	30	90	28.8	11.0

Table 3a. Categorical and Continuous Summary of Patients' Cumulative Treatment Episode Durations for Exposures of Interest in the SDD from March 1, 2022 to January 31, 2024

	Total Number of Patients	Number of Patients by Cumulative Treatment Episode Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Baricitinib for Alopecia</i>	1,140	195	17.1%	245	21.5%	167	14.6%	533	46.8%
<i>Ritlecitinib for Alopecia</i>	97	59	60.8%	*****	*****	*****	*****	*****	*****
<i>Upadacitinib for Crohn's Disease</i>	546	297	54.4%	140	25.6%	55	10.1%	54	9.9%
<i>Upadacitinib for Ulcerative Colitis</i>	1,499	492	32.8%	245	16.3%	195	13.0%	567	37.8%
<i>Upadacitinib for Inflammatory Bowel Disease</i>	2,404	925	38.5%	452	18.8%	297	12.4%	730	30.4%

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

Table 3a. Categorical and Continuous Summary of Patients' Cumulative Treatment Episode Durations for Exposures of Interest in the SDD from March 1, 2022 to January 31, 2024

	Distribution of Cumulative Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>	1	90	167	284	505	188.0	125.0
<i>Ritlecitinib for Alopecia</i>	2	20	44	82	181	55.8	45.0
<i>Upadacitinib for Crohn's Disease</i>	1	22	58	107	537	79.5	83.0
<i>Upadacitinib for Ulcerative Colitis</i>	1	47	125	260	595	163.4	139.9
<i>Upadacitinib for Inflammatory Bowel Disease</i>	1	35	96	216	609	140.9	132.3

Table 3b. Categorical and Continuous Summary of Patient's Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Patients	Number of Patients by Cumulative Treatment Episode Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Baricitinib for Alopecia	1,140	195	100.0%	245	100.0%	167	100.0%	533	100.0%
Female	741	136	69.7%	143	58.4%	110	65.9%	352	66.0%
Male	399	59	30.3%	102	41.6%	57	34.1%	181	34.0%
Ritlecitinib for Alopecia	97	59	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
Female	52	33	55.9%	*****	*****	*****	*****	*****	*****
Male	45	26	44.1%	*****	*****	*****	*****	0	0.0%
Upadacitinib for Crohn's Disease	546	297	100.0%	140	100.0%	55	100.0%	54	100.0%
Female	283	160	53.9%	74	52.9%	25	45.5%	24	44.4%
Male	263	137	46.1%	66	47.1%	30	54.5%	30	55.6%
Upadacitinib for Ulcerative Colitis	1,499	492	100.0%	245	100.0%	195	100.0%	567	100.0%
Female	639	209	42.5%	111	45.3%	81	41.5%	238	42.0%
Male	860	283	57.5%	134	54.7%	114	58.5%	329	58.0%
Upadacitinib for Inflammatory Bowel Disease	2,404	925	100.0%	452	100.0%	297	100.0%	730	100.0%
Female	1,084	431	46.6%	215	47.6%	131	44.1%	307	42.1%
Male	1,320	494	53.4%	237	52.4%	166	55.9%	423	57.9%

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

Table 3b. Categorical and Continuous Summary of Patient's Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Distribution of Cumulative Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	90	167	284	505	188.0	125.0
Female	1	90	170	289	493	189.5	125.7
Male	1	90	156	274	505	185.2	123.7
Ritlecitinib for Alopecia	2	20	44	82	181	55.8	45.0
Female	6	21	42	79	181	55.0	44.2
Male	2	14	48	84	162	56.6	46.5
Upadacitinib for Crohn's Disease	1	22	58	107	537	79.5	83.0
Female	1	23	58	99	531	73.1	72.4
Male	1	20	58	118	537	86.4	92.8
Upadacitinib for Ulcerative Colitis	1	47	125	260	595	163.4	139.9
Female	1	44	120	252	588	159.1	135.7
Male	1	48	127	266	595	166.6	142.9
Upadacitinib for Inflammatory Bowel Disease	1	35	96	216	609	140.9	132.3
Female	1	33	91	195	588	133.0	126.3
Male	1	36	102	230	609	147.3	136.7

Table 3c. Categorical and Continuous Summary of Patients' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Number of Patients by Cumulative Treatment Episode Duration								
	Total Number of Patients	0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Baricitinib for Alopecia	1,140	195	100.0%	245	100.0%	167	100.0%	533	100.0%
0-17 years	44	*****	*****	*****	*****	*****	*****	19	3.6%
18-44 years	621	105	53.8%	127	51.8%	98	58.7%	291	54.6%
45-64 years	355	55	28.2%	78	31.8%	46	27.5%	176	33.0%
≥ 65 years	120	*****	*****	*****	*****	*****	*****	47	8.8%
Ritlecitinib for Alopecia	97	59	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
0-17 years	45	23	39.0%	*****	*****	*****	*****	*****	100.0%
18-44 years	25	*****	*****	*****	*****	*****	*****	0	0.0%
45-64 years	*****	*****	*****	*****	*****	0	*****	0	0.0%
≥ 65 years	*****	*****	*****	0	0.0%	*****	*****	0	0.0%
Upadacitinib for Crohn's Disease	546	297	100.0%	140	100.0%	55	100.0%	54	100.0%
0-17 years	14	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	271	138	46.5%	72	51.4%	29	52.7%	32	59.3%
45-64 years	184	108	36.4%	41	29.3%	*****	*****	*****	*****
≥ 65 years	77	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Ulcerative Colitis	1,499	492	100.0%	245	100.0%	195	100.0%	567	100.0%
0-17 years	19	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	739	236	48.0%	120	49.0%	104	53.3%	279	49.2%
45-64 years	489	152	30.9%	79	32.2%	65	33.3%	193	34.0%
≥ 65 years	252	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Inflammatory Bowel Disease	2,404	925	100.0%	452	100.0%	297	100.0%	730	100.0%
0-17 years	45	24	2.6%	*****	*****	*****	*****	*****	*****
18-44 years	1,200	441	47.7%	227	50.2%	156	52.5%	376	51.5%
45-64 years	772	303	32.8%	141	31.2%	94	31.6%	234	32.1%
≥ 65 years	387	157	17.0%	*****	*****	*****	*****	*****	*****

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

Table 3c. Categorical and Continuous Summary of Patients' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Distribution of Cumulative Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	90	167	284	505	188.0	125.0
0-17 years	1	67	160	269	478	179.1	127.0
18-44 years	1	90	165	275	505	184.6	120.9
45-64 years	1	90	180	308	479	201.4	131.2
≥ 65 years	4	71	127	265	458	169.4	123.8
Ritlecitinib for Alopecia	2	20	44	82	181	55.8	45.0
0-17 years	3	33	51	92	181	66.0	46.2
18-44 years	2	15	48	74	167	54.3	47.8
45-64 years	6	16	26	48	116	36.8	30.0
≥ 65 years	11	11	80	149	149	80.0	97.6
Upadacitinib for Crohn's Disease	1	22	58	107	537	79.5	83.0
0-17 years	2	14	32	80	255	59.5	72.8
18-44 years	1	23	58	115	537	85.7	89.5
45-64 years	1	20	56	104	435	71.3	67.6
≥ 65 years	2	24	60	95	531	80.9	93.0
Upadacitinib for Ulcerative Colitis	1	47	125	260	595	163.4	139.9
0-17 years	2	9	46	168	303	85.7	89.5
18-44 years	1	44	132	253	588	162.1	137.7
45-64 years	1	52	132	266	595	169.3	142.3
≥ 65 years	1	47	111	289	542	161.5	143.3
Upadacitinib for Inflammatory Bowel Disease	1	35	96	216	609	140.9	132.3
0-17 years	1	23	46	170	329	95.2	93.7
18-44 years	1	36	101	213	609	142.7	131.7
45-64 years	1	36	96	223	595	140.1	132.4
≥ 65 years	1	37	88	229	542	142.1	137.2

Table 4a. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Baricitinib for Alopecia</i>	1,336	252	18.9%	381	28.5%	225	16.8%	478	35.8%
<i>Ritlecitinib for Alopecia</i>	101	64	63.4%	*****	*****	*****	*****	*****	*****
<i>Upadacitinib for Crohn's Disease</i>	567	312	55.0%	151	26.6%	53	9.3%	51	9.0%
<i>Upadacitinib for Ulcerative Colitis</i>	1,609	565	35.1%	289	18.0%	206	12.8%	549	34.1%
<i>Upadacitinib for Inflammatory Bowel Disease</i>	2,560	1,032	40.3%	511	20.0%	312	12.2%	705	27.5%

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Table 4a. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Distribution of Treatment Episode Durations, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>	1	78	127	233	505	160.4	114.9
<i>Ritlecitinib for Alopecia</i>	2	20	43	78	181	53.5	44.0
<i>Upadacitinib for Crohn's Disease</i>	1	21	58	105	537	76.6	78.8
<i>Upadacitinib for Ulcerative Colitis</i>	1	44	113	236	595	152.2	134.4
<i>Upadacitinib for Inflammatory Bowel Disease</i>	1	34	90	195	609	132.3	126.5

Table 4b. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Baricitinib for Alopecia	1,336	252	100.0%	381	100.0%	225	100.0%	478	100.0%
Female	859	174	69.0%	224	58.8%	144	64.0%	317	66.3%
Male	477	78	31.0%	157	41.2%	81	36.0%	161	33.7%
Ritlecitinib for Alopecia	101	64	100.0%	****	100.0%	****	100.0%	****	100.0%
Female	53	34	53.1%	****	****	****	****	****	100.0%
Male	48	30	46.9%	****	****	****	****	0	0.0%
Upadacitinib for Crohn's Disease	567	312	100.0%	151	100.0%	53	100.0%	51	100.0%
Female	297	170	54.5%	82	54.3%	23	43.4%	22	43.1%
Male	270	142	45.5%	69	45.7%	30	56.6%	29	56.9%
Upadacitinib for Ulcerative Colitis	1,609	565	100.0%	289	100.0%	206	100.0%	549	100.0%
Female	688	243	43.0%	130	45.0%	86	41.7%	229	41.7%
Male	921	322	57.0%	159	55.0%	120	58.3%	320	58.3%
Upadacitinib for Inflammatory Bowel Disease	2,560	1,032	100.0%	511	100.0%	312	100.0%	705	100.0%
Female	1,158	482	46.7%	244	47.7%	137	43.9%	295	41.8%
Male	1,402	550	53.3%	267	52.3%	175	56.1%	410	58.2%

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Table 4b. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Distribution of Treatment Episode Durations, Days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	78	127	233	505	160.4	114.9
Female	1	75	134	243	493	163.5	117.7
Male	1	84	121	220	505	154.9	109.6
Ritlecitinib for Alopecia	2	20	43	78	181	53.5	44.0
Female	6	21	41	74	181	54.0	43.6
Male	2	11	46	82	162	53.0	44.8
Upadacitinib for Crohn's Disease	1	21	58	105	537	76.6	78.8
Female	1	23	58	96	531	69.7	66.2
Male	1	21	58	114	537	84.2	90.1
Upadacitinib for Ulcerative Colitis	1	44	113	236	595	152.2	134.4
Female	1	43	112	229	588	147.8	129.8
Male	1	47	114	241	595	155.5	137.8
Upadacitinib for Inflammatory Bowel Disease	1	34	90	195	609	132.3	126.5
Female	1	32	86	183	588	124.5	119.5
Male	1	35	93	210	609	138.7	131.8

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Table 4c. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Number of Treatment Episodes by Duration								
	Total Number of Episodes	0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Baricitinib for Alopecia	1,336	252	100.0%	381	100.0%	225	100.0%	478	100.0%
0-17 years	54	13	5.2%	13	3.4%	12	5.3%	16	3.3%
18-44 years	737	141	56.0%	207	54.3%	126	56.0%	263	55.0%
45-64 years	412	71	28.2%	117	30.7%	67	29.8%	157	32.8%
≥ 65 years	133	27	10.7%	44	11.5%	20	8.9%	42	8.8%
Ritlecitinib for Alopecia	101	64	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
0-17 years	47	25	39.1%	*****	*****	*****	*****	*****	100.0%
18-44 years	26	*****	*****	*****	*****	*****	*****	0	0.0%
45-64 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%
≥ 65 years	*****	*****	*****	0	0.0%	*****	*****	0	0.0%
Upadacitinib for Crohn's Disease	567	312	100.0%	151	100.0%	53	100.0%	51	100.0%
0-17 years	14	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	286	148	47.4%	80	53.0%	28	52.8%	30	58.8%
45-64 years	189	111	35.6%	45	29.8%	*****	*****	*****	*****
≥ 65 years	78	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Ulcerative Colitis	1,609	565	100.0%	289	100.0%	206	100.0%	549	100.0%
0-17 years	19	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	805	283	50.1%	145	50.2%	106	51.5%	271	49.4%
45-64 years	516	168	29.7%	92	31.8%	71	34.5%	185	33.7%
≥ 65 years	269	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Inflammatory Bowel Disease	2,560	1,032	100.0%	511	100.0%	312	100.0%	705	100.0%
0-17 years	45	24	2.3%	*****	*****	*****	*****	*****	*****
18-44 years	1,299	514	49.8%	261	51.1%	161	51.6%	363	51.5%
45-64 years	807	324	31.4%	159	31.1%	100	32.1%	224	31.8%
≥ 65 years	409	170	16.5%	*****	*****	*****	*****	*****	*****

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Table 4c. Categorical and Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Distribution of Treatment Episode Durations, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	78	127	233	505	160.4	114.9
0-17 years	1	61	129	220	377	145.9	105.2
18-44 years	1	76	128	224	505	155.6	109.7
45-64 years	1	86	131	261	479	173.5	124.7
≥ 65 years	4	75	117	210	458	152.8	112.7
Ritlecitinib for Alopecia	2	20	43	78	181	53.5	44.0
0-17 years	3	27	50	88	181	63.2	46.4
18-44 years	2	15	44	71	167	52.2	46.4
45-64 years	6	16	28	49	116	35.3	25.7
≥ 65 years	11	11	80	149	149	80.0	97.6
Upadacitinib for Crohn's Disease	1	21	58	105	537	76.6	78.8
0-17 years	2	14	32	80	255	59.5	72.8
18-44 years	1	23	58	110	537	81.2	82.9
45-64 years	1	20	55	98	435	69.4	65.3
≥ 65 years	2	24	58	95	531	79.9	92.8
Upadacitinib for Ulcerative Colitis	1	44	113	236	595	152.2	134.4
0-17 years	2	9	46	168	303	85.7	89.5
18-44 years	1	42	112	220	588	148.8	131.3
45-64 years	1	52	120	254	595	160.4	138.4
≥ 65 years	1	45	103	261	542	151.3	137.3
Upadacitinib for Inflammatory Bowel Disease	1	34	90	195	609	132.3	126.5
0-17 years	1	23	46	170	329	95.2	93.7
18-44 years	1	34	90	195	609	131.8	124.9
45-64 years	1	36	92	202	595	134.0	128.3
≥ 65 years	1	34	86	195	542	134.5	130.9

Table 5a. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Total Number of Patients	Number of Patients by First Treatment Episode Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Baricitinib for Alopecia</i>	1,140	195	17.1%	309	27.1%	191	16.8%	445	39.0%
<i>Ritlecitinib for Alopecia</i>	97	60	61.9%	*****	*****	*****	*****	*****	*****
<i>Upadacitinib for Crohn's Disease</i>	546	301	55.1%	143	26.2%	52	9.5%	50	9.2%
<i>Upadacitinib for Ulcerative Colitis</i>	1,499	526	35.1%	263	17.5%	189	12.6%	521	34.8%
<i>Upadacitinib for Inflammatory Bowel Disease</i>	2,404	969	40.3%	476	19.8%	292	12.1%	667	27.7%

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

Table 5a. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Distribution of First Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>	1	86	139	253	505	169.5	117.2
<i>Ritlecitinib for Alopecia</i>	2	20	44	79	181	54.7	44.3
<i>Upadacitinib for Crohn's Disease</i>	1	21	58	105	537	77.1	79.7
<i>Upadacitinib for Ulcerative Colitis</i>	1	43	114	241	595	154.4	136.6
<i>Upadacitinib for Inflammatory Bowel Disease</i>	1	33	90	196	609	133.4	128.1

Table 5b. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Patients	Number of Patients by First Treatment Episode Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Baricitinib for Alopecia	1,140	195	100.0%	309	100.0%	191	100.0%	445	100.0%
Female	741	136	69.7%	184	59.5%	119	62.3%	302	67.9%
Male	399	59	30.3%	125	40.5%	72	37.7%	143	32.1%
Ritlecitinib for Alopecia	97	60	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
Female	52	33	55.0%	*****	*****	*****	*****	*****	100.0%
Male	45	27	45.0%	*****	*****	*****	*****	0	0.0%
Upadacitinib for Crohn's Disease	546	301	100.0%	143	100.0%	52	100.0%	50	100.0%
Female	283	163	54.2%	76	53.1%	22	42.3%	22	44.0%
Male	263	138	45.8%	67	46.9%	30	57.7%	28	56.0%
Upadacitinib for Ulcerative Colitis	1,499	526	100.0%	263	100.0%	189	100.0%	521	100.0%
Female	639	226	43.0%	118	44.9%	76	40.2%	219	42.0%
Male	860	300	57.0%	145	55.1%	113	59.8%	302	58.0%
Upadacitinib for Inflammatory Bowel Disease	2,404	969	100.0%	476	100.0%	292	100.0%	667	100.0%
Female	1,084	453	46.7%	226	47.5%	126	43.2%	279	41.8%
Male	1,320	516	53.3%	250	52.5%	166	56.8%	388	58.2%

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Table 5b. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Distribution of First Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	86	139	253	505	169.5	117.2
Female	1	83	147	260	493	173.4	120.1
Male	1	90	127	225	505	162.2	111.3
Ritlecitinib for Alopecia	2	20	44	79	181	54.7	44.3
Female	6	21	42	76	181	54.5	43.9
Male	2	14	48	84	162	55.0	45.2
Upadacitinib for Crohn's Disease	1	21	58	105	537	77.1	79.7
Female	1	23	57	96	531	70.1	67.2
Male	1	20	58	115	537	84.7	90.8
Upadacitinib for Ulcerative Colitis	1	43	114	241	595	154.4	136.6
Female	1	43	111	234	588	149.9	132.0
Male	1	46	115	251	595	157.8	139.9
Upadacitinib for Inflammatory Bowel Disease	1	33	90	196	609	133.4	128.1
Female	1	31	86	184	588	125.0	120.6
Male	1	35	94	213	609	140.2	133.6

Table 5c. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Total Number of Patients	Number of Patients by First Treatment Episode Duration							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Baricitinib for Alopecia	1,140	195	100.0%	309	100.0%	191	100.0%	445	100.0%
0-17 years	44	*****	*****	*****	*****	*****	*****	15	3.4%
18-44 years	621	105	53.8%	166	53.7%	110	57.6%	240	53.9%
45-64 years	355	55	28.2%	96	31.1%	53	27.7%	151	33.9%
≥ 65 years	120	*****	*****	*****	*****	*****	*****	39	8.8%
Ritlecitinib for Alopecia	97	60	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
0-17 years	45	23	38.3%	*****	*****	*****	*****	*****	100.0%
18-44 years	25	13	21.7%	*****	*****	*****	*****	0	0.0%
45-64 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%
≥ 65 years	*****	*****	*****	0	0.0%	*****	*****	0	0.0%
Upadacitinib for Crohn's Disease	546	301	100.0%	143	100.0%	52	100.0%	50	100.0%
0-17 years	14	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	271	141	46.8%	74	51.7%	27	51.9%	29	58.0%
45-64 years	184	108	35.9%	43	30.1%	*****	*****	*****	*****
≥ 65 years	77	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Ulcerative Colitis	1,499	526	100.0%	263	100.0%	189	100.0%	521	100.0%
0-17 years	19	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	739	257	48.9%	129	49.0%	97	51.3%	256	49.1%
45-64 years	489	160	30.4%	85	32.3%	67	35.4%	177	34.0%
≥ 65 years	252	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Inflammatory Bowel Disease	2,404	969	100.0%	476	100.0%	292	100.0%	667	100.0%
0-17 years	45	24	2.5%	*****	*****	*****	*****	*****	*****
18-44 years	1,200	470	48.5%	238	50.0%	149	51.0%	343	51.4%
45-64 years	772	311	32.1%	150	31.5%	96	32.9%	215	32.2%
≥ 65 years	387	164	16.9%	*****	*****	*****	*****	*****	*****

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Table 5c. Categorical and Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Distribution of First Treatment Episode Duration, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	86	139	253	505	169.5	117.2
0-17 years	1	67	148	245	377	155.7	107.6
18-44 years	1	84	138	232	505	164.5	111.9
45-64 years	1	90	152	285	479	184.5	126.2
≥ 65 years	4	71	120	218	458	156.2	116.3
Ritlecitinib for Alopecia	2	20	44	79	181	54.7	44.3
0-17 years	3	33	51	88	181	65.7	45.8
18-44 years	2	15	48	71	167	53.1	47.1
45-64 years	6	16	26	48	116	34.6	25.9
≥ 65 years	11	11	80	149	149	80.0	97.6
Upadacitinib for Crohn's Disease	1	21	58	105	537	77.1	79.7
0-17 years	2	14	32	80	255	59.5	72.8
18-44 years	1	22	58	111	537	81.8	84.4
45-64 years	1	20	56	100	435	70.0	65.9
≥ 65 years	2	24	58	95	531	80.8	93.0
Upadacitinib for Ulcerative Colitis	1	43	114	241	595	154.4	136.6
0-17 years	2	9	46	168	303	85.7	89.5
18-44 years	1	42	114	226	588	151.9	133.6
45-64 years	1	52	120	256	595	161.9	140.4
≥ 65 years	1	43	100	270	542	152.3	139.6
Upadacitinib for Inflammatory Bowel Disease	1	33	90	196	609	133.4	128.1
0-17 years	1	23	46	170	329	95.2	93.7
18-44 years	1	34	91	197	609	134.2	127.1
45-64 years	1	34	92	203	595	134.6	129.8
≥ 65 years	1	33	86	188	542	132.6	130.9

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

Table 6a. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Total Number of Episodes	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Baricitinib for Alopecia</i>	196	57	29.1%	72	36.7%	34	17.3%	33	16.8%
<i>Ritlecitinib for Alopecia</i>	*****	*****	*****	0	0.0%	0	0.0%	0	0.0%
<i>Upadacitinib for Crohn's Disease</i>	21	*****	*****	*****	*****	*****	*****	*****	*****
<i>Upadacitinib for Ulcerative</i>	110	39	35.5%	26	23.6%	17	15.5%	28	25.5%
<i>Upadacitinib for Inflammatory Bowel Disease</i>	156	63	40.4%	35	22.4%	20	12.8%	38	24.4%

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Table 6a. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Distribution of Treatment Episode Durations Excluding First Treatment Episode, Days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>	1	47	90	145	412	107.7	82.8
<i>Ritlecitinib for Alopecia</i>	5	7	20	43	55	24.8	23.0
<i>Upadacitinib for Crohn's Disease</i>	1	30	60	76	182	62.3	46.0
<i>Upadacitinib for Ulcerative Colitis</i>	1	49	97	183	390	122.5	95.8
<i>Upadacitinib for Inflammatory Bowel Disease</i>	1	44	85	175	416	115.8	98.1

Table 6b. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Episodes	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Baricitinib for Alopecia	196	57	100.0%	72	100.0%	34	100.0%	33	100.0%
Female	118	38	66.7%	40	55.6%	*****	*****	*****	*****
Male	78	19	33.3%	32	44.4%	*****	*****	*****	*****
Ritlecitinib for Alopecia	*****	*****	100.0%	0	NaN	0	NaN	0	NaN
Female	*****	*****	*****	0	NaN	0	NaN	0	NaN
Male	*****	*****	*****	0	NaN	0	NaN	0	NaN
Upadacitinib for Crohn's Disease	21	*****	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
Female	*****	*****	*****	*****	*****	*****	*****	0	0.0%
Male	*****	*****	*****	*****	*****	0	0.0%	*****	100.0%
Upadacitinib for Ulcerative Colitis	110	39	100.0%	26	100.0%	17	100.0%	28	100.0%
Female	49	17	43.6%	12	46.2%	*****	*****	*****	*****
Male	61	22	56.4%	14	53.8%	*****	*****	*****	*****
Upadacitinib for Inflammatory Bowel Disease	156	63	100.0%	35	100.0%	20	100.0%	38	100.0%
Female	74	29	46.0%	*****	*****	*****	*****	16	42.1%
Male	82	34	54.0%	*****	*****	*****	*****	22	57.9%

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

NaN: Not a Number

Table 6b. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Distribution of Treatment Episode Durations Excluding First Treatment Episode, Days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	47	90	145	412	107.7	82.8
Female	1	46	90	136	401	100.9	75.5
Male	2	62	90	170	412	118.1	92.3
Ritlecitinib for Alopecia	5	7	20	43	55	24.8	23.0
Female	30	30	30	30	30	30.0	NaN
Male	5	5	9	55	55	23.0	27.8
Upadacitinib for Crohn's Disease	1	30	60	76	182	62.3	46.0
Female	1	32	61	79	149	61.6	42.0
Male	21	21	44	76	182	63.7	56.8
Upadacitinib for Ulcerative Colitis	1	49	97	183	390	122.5	95.8
Female	7	45	113	170	390	120.7	94.3
Male	1	50	94	192	384	123.9	97.6
Upadacitinib for Inflammatory Bowel Disease	1	44	85	175	416	115.8	98.1
Female	1	45	85	170	416	118.2	102.3
Male	1	38	84	183	384	113.6	94.7

Table 6c. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Total Number of Episodes	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)							
		0-60 Days		61-120 Days		121-180 Days		181+ Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Baricitinib for Alopecia	196	57	100.0%	72	100.0%	34	100.0%	33	100.0%
0-17 years	*****	*****	*****	*****	*****	*****	*****	*****	*****
18-44 years	116	36	63.2%	41	56.9%	16	47.1%	23	69.7%
45-64 years	57	*****	*****	*****	*****	*****	*****	*****	*****
≥ 65 years	*****	*****	*****	*****	*****	*****	*****	*****	*****
Ritlecitinib for Alopecia	*****	*****	100.0%	0	NaN	0	NaN	0	NaN
0-17 years	*****	*****	*****	0	NaN	0	NaN	0	NaN
18-44 years	*****	*****	*****	0	NaN	0	NaN	0	NaN
45-64 years	*****	*****	*****	0	NaN	0	NaN	0	NaN
≥ 65 years	0	0	0.0%	0	NaN	0	NaN	0	NaN
Upadacitinib for Crohn's Disease	21	*****	100.0%	*****	100.0%	*****	100.0%	*****	100.0%
0-17 years	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
18-44 years	*****	*****	*****	*****	*****	*****	100.0%	*****	100.0%
45-64 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%
≥ 65 years	*****	*****	*****	0	0.0%	0	0.0%	0	0.0%
Upadacitinib for Ulcerative Colitis	110	39	100.0%	26	100.0%	17	100.0%	28	100.0%
0-17 years	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
18-44 years	66	26	66.7%	*****	*****	*****	*****	15	53.6%
45-64 years	27	*****	*****	*****	*****	*****	*****	*****	*****
≥ 65 years	17	*****	*****	*****	*****	*****	*****	*****	*****
Upadacitinib for Inflammatory Bowel Disease	156	63	100.0%	35	100.0%	20	100.0%	38	100.0%
0-17 years	0	0	0.0%	0	0.0%	0	0.0%	0	0.0%
18-44 years	99	44	69.8%	23	65.7%	*****	*****	*****	*****
45-64 years	35	*****	*****	*****	*****	*****	*****	*****	*****
≥ 65 years	22	*****	*****	*****	*****	*****	*****	*****	*****

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

Table 6c. Categorical and Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Distribution of Treatment Episode Durations Excluding First Treatment Episode, days						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Baricitinib for Alopecia	1	47	90	145	412	107.7	82.8
0-17 years	6	48	84	121	308	103.2	85.8
18-44 years	1	45	90	151	412	107.8	81.8
45-64 years	1	53	90	128	403	105.2	89.3
≥ 65 years	29	90	110	169	233	122.4	65.4
Ritlecitinib for Alopecia	5	7	20	43	55	24.8	23.0
0-17 years	5	5	7	9	9	7.0	2.8
18-44 years	30	30	30	30	30	30.0	NaN
45-64 years	55	55	55	55	55	55.0	NaN
≥ 65 years	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Upadacitinib for Crohn's Disease	1	30	60	76	182	62.3	46.0
0-17 years	NaN	NaN	NaN	NaN	NaN	NaN	NaN
18-44 years	1	32	62	107	182	71.1	48.6
45-64 years	10	21	50	76	79	47.2	31.3
≥ 65 years	7	7	7	7	7	7.0	NaN
Upadacitinib for Ulcerative Colitis	1	49	97	183	390	122.5	95.8
0-17 years	NaN	NaN	NaN	NaN	NaN	NaN	NaN
18-44 years	1	41	90	174	390	114.3	96.8
45-64 years	12	60	114	213	355	133.9	92.5
≥ 65 years	11	45	124	186	360	136.3	99.0
Disease	1	44	85	175	416	115.8	98.1
0-17 years	NaN	NaN	NaN	NaN	NaN	NaN	NaN
18-44 years	1	35	68	149	390	103.1	89.9
45-64 years	10	50	94	192	355	119.3	90.2
≥ 65 years	7	45	159	215	416	167.5	128.3

NaN: Not a Number

Table 7a. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Baricitinib Indicated for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Total Number of Episodes	Number of Episodes by Average Filled Daily Dose Cut-offs							
		Dose ≤ 2 mg		Dose > 2 mg - 4 mg		Dose > 4 mg - 8 mg		Dose > 8 mg	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Baricitinib for Alopecia</i>									
Overall	1,336	*****	*****	711	53.2%	*****	*****	0	0.0%
Sex									
Female	859	*****	*****	431	60.6%	*****	*****	0	NaN
Male	477	*****	*****	280	39.4%	*****	*****	0	NaN
Age group									
0-17 years	54	*****	*****	27	3.8%	*****	*****	0	NaN
18-44 years	737	325	*****	412	57.9%	*****	0.0%	0	NaN
45-64 years	412	193	*****	219	30.8%	*****	0.0%	0	NaN
≥ 65 years	133	*****	*****	53	7.5%	*****	*****	0	NaN

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

NaN: Not a Number.

Table 7a. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Baricitinib Indicated for Alopecia in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Distribution of Episodes by Average Filled Daily Dose			
	Minimum	Maximum	Mean	Standard Deviation
<i>Baricitinib for Alopecia</i>				
Overall	1.0	8.0	2.9	1.0
Sex				
Female	N/A	N/A	N/A	N/A
Male	N/A	N/A	N/A	N/A
Age group				
0-17 years	N/A	N/A	N/A	N/A
18-44 years	N/A	N/A	N/A	N/A
45-64 years	N/A	N/A	N/A	N/A
≥ 65 years	N/A	N/A	N/A	N/A

N/A means not applicable.

Table 7b. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Crohn's Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Total Number of Episodes	Number of Episodes by Average Filled Daily Dose Cut-offs							
		Dose ≤ 15mg		Dose > 15 mg - 30 mg		Dose > 30 mg - 45 mg		Dose > 45 mg	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Upadacitinib for Crohn's Disease</i>									
Overall	567	*****	*****	95	16.8%	446	78.7%	*****	*****
Sex									
Female	297	*****	*****	*****	*****	232	52.0%	*****	*****
Male	270	*****	*****	*****	*****	214	48.0%	*****	*****
Age group									
0-17 years	14	*****	*****	*****	*****	*****	*****	0	0.0%
18-44 years	286	*****	*****	44	46.3%	229	51.3%	*****	*****
45-64 years	189	*****	*****	*****	*****	145	32.5%	*****	*****
≥ 65 years	78	*****	*****	*****	*****	*****	*****	0	0.0%

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

Table 7b. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Crohn's Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Distribution of Episodes by Average Filled Daily Dose			
	Minimum	Maximum	Mean	Standard Deviation
<i>Upadacitinib for Crohn's Disease</i>				
Overall	11.3	57.0	39.3	8.4
Sex				
Female	N/A	N/A	N/A	N/A
Male	N/A	N/A	N/A	N/A
Age group				
0-17 years	N/A	N/A	N/A	N/A
18-44 years	N/A	N/A	N/A	N/A
45-64 years	N/A	N/A	N/A	N/A
≥ 65 years	N/A	N/A	N/A	N/A

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

N/A means not applicable.

Table 7c. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Ulcerative Colitis in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Total Number of Episodes	Number of Episodes by Average Filled Daily Dose Cut-offs							
		Dose ≤ 15mg		Dose > 15 mg - 30 mg		Dose > 30 mg - 45 mg		Dose > 45 mg	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Upadacitinib for Ulcerative Colitis</i>									
Overall	1,609	*****	*****	439	27.3%	1,072	66.6%	*****	*****
Sex									
Female	688	*****	*****	170	38.7%	474	44.2%	*****	*****
Male	921	*****	*****	269	61.3%	598	55.8%	*****	*****
Age group									
0-17 years	19	*****	*****	*****	*****	*****	*****	0	0.0%
18-44 years	805	*****	*****	214	48.7%	538	50.2%	*****	*****
45-64 years	516	*****	*****	148	33.7%	341	31.8%	*****	*****
≥ 65 years	269	17	*****	*****	*****	*****	*****	0	0.0%

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

Table 7c. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Ulcerative Colitis in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Distribution of Episodes by Average Filled Daily Dose			
	Minimum	Maximum	Mean	Standard Deviation
<i>Upadacitinib for Ulcerative Colitis</i>				
Overall	3.1	90.0	35.0	9.4
Sex				
Female	N/A	N/A	N/A	N/A
Male	N/A	N/A	N/A	N/A
Age group				
0-17 years	N/A	N/A	N/A	N/A
18-44 years	N/A	N/A	N/A	N/A
45-64 years	N/A	N/A	N/A	N/A
≥ 65 years	N/A	N/A	N/A	N/A

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

N/A means not applicable.

Table 7d. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Inflammatory Bowel Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Total Number of Episodes	Number of Episodes by Average Filled Daily Dose Cut-offs							
		Dose ≤ 15mg		Dose > 15 mg - 30 mg		Dose > 30 mg - 45 mg		Dose > 45 mg	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Upadacitinib for Inflammatory Bowel Disease</i>									
Overall	2,560	*****	*****	623	24.3%	1,799	70.3%	*****	*****
Sex									
Female	1,158	*****	*****	256	41.1%	833	46.3%	*****	*****
Male	1,402	*****	*****	367	58.9%	966	53.7%	*****	*****
Age group									
0-17 years	45	*****	*****	*****	*****	33	1.8%	0	0.0%
18-44 years	1,299	*****	*****	313	50.2%	915	50.9%	*****	*****
45-64 years	807	*****	*****	206	33.1%	561	31.2%	*****	*****
≥ 65 years	409	*****	*****	*****	*****	290	16.1%	0	0.0%

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

N/A means not applicable.

Table 7d. Categorical and Continuous Summary of Average Filled Daily Dose in Each Treatment Episode of Upadacitinib Indicated for Inflammatory Bowel Disease in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall, Sex, Age Group

	Distribution of Episodes by Average Filled Daily Dose			
	Minimum	Maximum	Mean	Standard Deviation
<i>Upadacitinib for Inflammatory Bowel Disease</i>				
Overall	3.1	90.0	36.2	9.2
Sex				
Female	N/A	N/A	N/A	N/A
Male	N/A	N/A	N/A	N/A
Age group				
0-17 years	N/A	N/A	N/A	N/A
18-44 years	N/A	N/A	N/A	N/A
45-64 years	N/A	N/A	N/A	N/A
≥ 65 years	N/A	N/A	N/A	N/A

N/A means not applicable.

Table 8a. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Baricitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode								Distribution of Episodes by Average Filled			
		≤ 2 mg		> 2 mg - 4 mg		> 4 mg - 8 mg		> 8 mg		Minimum	Maximum	Mean	Standard Deviation
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients				
<i>Exposures</i>													
Baricitinib for Alopecia	1,140	*****	*****	588	51.6%	*****	*****	0	0.0%	1.0	8.0	2.9	1.0

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

Table 8b. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Upadacitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode							
		≤ 15mg		> 15 mg - 30 mg		> 30 mg - 45 mg		> 45 mg	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Upadacitinib for Crohn's Disease	546	****	****	82	15.0%	441	80.8%	****	****
Upadacitinib for Ulcerative Colitis	1,499	****	****	382	25.5%	1,051	70.1%	****	****
Upadacitinib for Inflammatory Bowel Disease	2,404	****	****	536	22.3%	1,770	73.6%	****	****

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

Table 8b. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Upadacitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Overall

	Distribution of Episodes by Average Filled Daily Dose			
	Minimum	Maximum	Mean	Standard Deviation
Upadacitinib for Crohn's Disease	11.3	57.0	39.7	8.2
Upadacitinib for Ulcerative Colitis	3.1	90.0	35.6	9.2
Upadacitinib for Inflammatory Bowel Disease	3.1	90.0	36.8	9.0

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

Table 8c. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Baricitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode							
		≤ 2 mg		> 2 mg - 4 mg		> 4 mg - 8 mg		> 8 mg	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Exposures</i>									
Baricitinib for Alopecia	1,140	*****	100.0%	588	100.0%	*****	100.0%	0	NaN
Female	741	*****	*****	364	61.9%	*****	*****	0	NaN
Male	399	*****	*****	224	38.1%	*****	*****	0	NaN

NaN: Not a Number.

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

Table 8d. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Upadacitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Sex

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode							
		≤ 15mg		> 15 mg - 30 mg		> 30 mg - 45 mg		> 45 mg	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Upadacitinib for Crohn's Disease	546	*****	100.0%	82	100.0%	441	100.0%	*****	*****
Female	283	*****	*****	41	50.0%	229	51.9%	*****	*****
Male	263	*****	*****	41	50.0%	212	48.1%	*****	*****
Upadacitinib for Ulcerative Colitis	1,499	*****	100.0%	382	100.0%	1,051	100.0%	*****	*****
Female	639	*****	*****	148	38.7%	460	43.8%	*****	*****
Male	860	*****	*****	234	61.3%	591	56.2%	*****	*****
Upadacitinib for Inflammatory Bowel Disease	2,404	*****	100.0%	536	100.0%	1,770	100.0%	*****	*****
Female	1,084	*****	*****	220	41.0%	816	46.1%	*****	*****
Male	1,320	*****	*****	316	59.0%	954	53.9%	*****	*****

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

Table 8e. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Baricitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group.

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode							
		≤ 2 mg		> 2 mg - 4 mg		> 4 mg - 8 mg		> 8 mg	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Exposures</i>									
Baricitinib for Alopecia	1,140	*****	100.0%	588	100.0%	*****	100.0%	0	NaN
0-17 years	44	*****	*****	20	3.4%	*****	*****	0	NaN
18-44 years	621	285	*****	336	57.1%	0	0.0%	0	NaN
45-64 years	355	169	*****	186	31.6%	0	0.0%	0	NaN
≥ 65 years	120	*****	*****	46	7.8%	*****	*****	0	NaN

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

NaN: Not a number

Table 8f. Categorical and Continuous Summary of Average Filled Daily Dose in Each Patient's First Valid Episode for Upadacitinib in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024, by Age Group

	Total Number of Patients	Number of Patients by Average Filled Daily Dose Cut-offs in First Treatment Episode							
		≤ 15mg		> 15 mg - 30 mg		> 30 mg - 45 mg		> 45 mg	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
Upadacitinib for Crohn's Disease	546	*****	100.0%	82	100.0%	441	100.0%	*****	100.0%
0-17 years	14	*****	*****	*****	*****	*****	*****	0	0.0%
18-44 years	271	*****	*****	35	42.7%	225	51.0%	*****	*****
45-64 years	184	*****	*****	*****	*****	145	32.9%	*****	*****
≥ 65 years	77	*****	*****	*****	*****	*****	*****	0	0.0%
Upadacitinib for Ulcerative Colitis	1,499	*****	100.0%	382	100.0%	1,051	100.0%	*****	100.0%
0-17 years	19	*****	*****	*****	*****	*****	*****	0	0.0%
18-44 years	739	*****	*****	178	46.6%	529	50.3%	*****	*****
45-64 years	489	*****	*****	131	34.3%	334	31.8%	*****	*****
≥ 65 years	252	*****	*****	*****	*****	*****	*****	0	0.0%
Upadacitinib for Inflammatory Bowel Disease	2,404	*****	100.0%	536	100.0%	1,770	100.0%	*****	100.0%
0-17 years	45	*****	*****	*****	*****	33	1.9%	0	0.0%
18-44 years	1,200	*****	*****	254	47.4%	899	50.8%	*****	*****
45-64 years	772	*****	*****	185	34.5%	554	31.3%	*****	*****
≥ 65 years	387	*****	*****	*****	*****	284	16.0%	0	0.0%

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

Table 9. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Baricitinib for Alopecia		Ritlecitinib for Alopecia		Upadacitinib for Crohn's Disease	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	134,527,903	N/A ¹	134,527,903	N/A	134,527,903	N/A
Had required coverage type (medical and/or drug coverage)	84,733,833	49,794,070	84,733,833	49,794,070	84,733,833	49,794,070
Enrolled during specified age range	84,733,327	506	84,733,327	506	84,733,327	506
Had requestable medical charts	84,733,327	0	84,733,327	0	84,733,327	0
Met demographic requirements (sex, race, and Hispanic origin)	84,686,935	46,392	84,686,935	46,392	84,686,935	46,392
Members with a valid index event						
Had any cohort-defining claim during the query period	2,647	84,684,288	119	84,686,816	30,230	84,656,705
Claim recorded during specified age range	2,647	0	119	0	30,230	0
Episode defining index claim recorded during the query period	2,145	502	119	0	22,564	7,666
Members with required pre-index history						
Had sufficient pre-index continuous enrollment	1,712	433	*****	*****	17,156	5,408
Met inclusion and exclusion criteria ²	1,140	572	97	*****	546	16,610
<i>Evidence of ulcerative colitis or atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	16,046
<i>Evidence of Crohn's disease or atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of discharge date as exclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	688
<i>Evidence of rheumatoid arthritis as exclusion criteria</i>	N/A	442	N/A	*****	N/A	N/A
<i>No evidence of alopecia as inclusion criteria</i>	N/A	534	N/A	*****	N/A	N/A
<i>No evidence of Crohn's disease as inclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	15,747
<i>No evidence of IBD as inclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of ulcerative colitis as inclusion criteria</i>	N/A	N/A	N/A	N/A	N/A	N/A
Had sufficient post-index continuous enrollment	1,140	0	97	0	546	0
Final cohort						
Number of members	1,140	N/A	97	N/A	546	N/A

Table 9. Summary of Patient-Level Cohort Attrition in the Sentinel Distributed Database (SDD) from March 1, 2022 to January 31, 2024

	Upadacitinib for Ulcerative Colitis		Upadacitinib for Inflammatory Bowel Disease	
	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	134,527,903	N/A	134,527,903	N/A
Had required coverage type (medical and/or drug coverage)	84,733,833	49,794,070	84,733,833	49,794,070
Enrolled during specified age range	84,733,327	506	84,733,327	506
Had requestable medical charts	84,733,327	0	84,733,327	0
Met demographic requirements (sex, race, and Hispanic origin)	84,686,935	46,392	84,686,935	46,392
Members with a valid index event				
Had any cohort-defining claim during the query period	30,230	84,656,705	30,230	84,656,705
Claim recorded during specified age range	30,230	0	30,230	0
Episode defining index claim recorded during the query period	22,564	7,666	22,564	7,666
Members with required pre-index history				
Had sufficient pre-index continuous enrollment	17,156	5,408	17,156	5,408
Met inclusion and exclusion criteria ¹	1,499	15,657	2,404	14,752
<i>Evidence of ulcerative colitis or atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	N/A	N/A	N/A
<i>Evidence of Crohn's disease or atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	14,995	N/A	N/A
<i>Evidence of atopic dermatitis or psoriatic arthritis or rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies as exclusion criteria</i>	N/A	N/A	N/A	13,954
<i>Evidence of discharge date as exclusion criteria</i>	N/A	687	N/A	687
<i>Evidence of rheumatoid arthritis as exclusion criteria</i>	N/A	N/A	N/A	N/A
<i>No evidence of alopecia as inclusion criteria</i>	N/A	N/A	N/A	N/A
<i>No evidence of Crohn's disease as inclusion criteria</i>	N/A	N/A	N/A	N/A
<i>No evidence of IBD as inclusion criteria</i>	N/A	N/A	N/A	13,722
<i>No evidence of ulcerative colitis as inclusion criteria</i>	N/A	14,648	N/A	N/A
Had sufficient post-index continuous enrollment	1,499	0	2,404	0
Final cohort				
Number of members	1,499	N/A	2,404	N/A

¹N/A means not applicable.

²Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the total of all patients in each criterion.

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

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 6, 2024)

Masked DP ID	DP Start Date	DP End Date ¹
DP01	01/01/2007	10/31/2023
DP02	01/01/2008	08/31/2023
DP03	01/01/2010	09/30/2023
DP04	01/01/2008	01/31/2024
DP05	01/01/2006	10/31/2023

¹End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

Appendix B. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposures in this Request

Non-Proprietary Name	Proprietary Name
Baricitinib	
baricitinib	Baricitinib
baricitinib	Olumiant
Ritlecitinib	
ritlecitinib tosylate	Litfulo
Upadacitinib	
upadacitinib	Rinvoq

Appendix C. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposure Censoring Criteria in this Request

Non-Proprietary Name	Proprietary Name
Different JAK inhibitor	
abrocitinib	Cibinqo
fedratinib dihydrochloride	Inrebic
momelotinib dihydrochloride	Ojjaara
pacritinib citrate	Vonjo
ruxolitinib phosphate	Jakafi
ruxolitinib phosphate	Opzelura
tofacitinib citrate	Xeljanz
tofacitinib citrate	Xeljanz XR
tofacitinib citrate	tofacitinib (bulk)
upadacitinib	Rinvoq
baricitinib	Barticitinib
baricitinib	Olumiant
ritlecitinib tosylate	Litfulo
Methotrexate	
methotrexate	Jylamvo
methotrexate	Xatmep
methotrexate	methotrexate (bulk)
methotrexate sodium	Trexall
methotrexate sodium	methotrexate sodium
methotrexate sodium/PF	methotrexate sodium (PF)
methotrexate/PF	Otrexup (PF)
methotrexate/PF	Rasuvo (PF)
methotrexate/PF	RediTrex (PF)
Azathioprine	
azathioprine	Azasan
azathioprine	Imuran
azathioprine	azathioprine
azathioprine	azathioprine (bulk)
azathioprine sodium	azathioprine sodium
Cyclosporine	
cyclosporine	Sandimmune
cyclosporine	cyclosporine
cyclosporine	cyclosporine (bulk)
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
cyclosporine, modified	cyclosporine modified
Biologics	
adalimumab	Humira

Appendix C. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposure Censoring Criteria in this Request

Non-Proprietary Name	Proprietary Name
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 Pediatric UC
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
adalimumab-aacf	Idacio(CF)
adalimumab-aacf	Idacio(CF) Pen
adalimumab-aacf	Idacio(CF) Pen Crohn-UC Startr
adalimumab-aacf	Idacio(CF) Pen Psoriasis Start
adalimumab-aacf	adalimumab-aacf
adalimumab-aaty	Yuflyma(CF)
adalimumab-aaty	Yuflyma(CF) AI Crohn's-UC-HS
adalimumab-aaty	Yuflyma(CF) Autoinjector
adalimumab-adaz	Hyrimoz
adalimumab-adaz	Hyrimoz Pen
adalimumab-adaz	Hyrimoz Pen Crohn's-UC Starter
adalimumab-adaz	Hyrimoz Pen Psoriasis Starter
adalimumab-adaz	Hyrimoz(CF)
adalimumab-adaz	Hyrimoz(CF) Pedi Crohn Starter
adalimumab-adaz	Hyrimoz(CF) Pen
adalimumab-adaz	adalimumab-adaz
adalimumab-adbm	Cyltezo(CF)
adalimumab-adbm	Cyltezo(CF) Pen
adalimumab-adbm	Cyltezo(CF) Pen Crohn's-UC-HS
adalimumab-adbm	Cyltezo(CF) Pen Psoriasis-UV
adalimumab-adbm	adalimumab-adbm
adalimumab-adbm	adalimumab-adbm(CF) pen Crohns
adalimumab-adbm	adalimumab-adbm(CF) pen PS-UV
adalimumab-afzb	Abrilada(CF)
adalimumab-afzb	Abrilada(CF) Pen
adalimumab-aqvh	Yusimry(CF) Pen
adalimumab-atto	Amjevita(CF)
adalimumab-atto	Amjevita(CF) Autoinjector
adalimumab-bwwd	Hadlima

Appendix C. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposure Censoring Criteria in this Request

Non-Proprietary Name	Proprietary Name
adalimumab-bwwd	Hadlima PushTouch
adalimumab-bwwd	Hadlima(CF)
adalimumab-bwwd	Hadlima(CF) PushTouch
adalimumab-fkjp	Hulio(CF)
adalimumab-fkjp	Hulio(CF) Pen
adalimumab-fkjp	adalimumab-fkjp
certolizumab pegol	Cimzia
certolizumab pegol	Cimzia Powder for Reconst
certolizumab pegol	Cimzia Starter Kit
golimumab	Simponi
golimumab	Simponi ARIA
infliximab	Remicade
infliximab	infliximab
infliximab-abda	Renflexis
infliximab-axxq	Avsola
infliximab-dyyb	Inflectra
natalizumab	Tysabri
risankizumab-rzaa	Skyrizi
ustekinumab	Stelara
vedolizumab	Entyvio
vedolizumab	Entyvio Pen
Small Molecule	
etrasimod arginine	Velsipity
ozanimod hydrochloride	Zeposia
ozanimod hydrochloride	Zeposia Starter Kit (28-day)
ozanimod hydrochloride	Zeposia Starter Kit (37-day)
ozanimod hydrochloride	Zeposia Starter Pack (7-day)
tofacitinib citrate	Xeljanz
tofacitinib citrate	Xeljanz XR
tofacitinib citrate	tofacitinib (bulk)

Appendix D. List of Healthcare Common Procedure Coding System, Level II (HCPCS) and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exposure Censoring Criteria in this Request

Code	Description	Code Category	Code Type
Methotrexate			
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9255	Injection, methotrexate (Accord), not therapeutically equivalent to J9250 and J9260, 50 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
Azathioprine			
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
Cyclosporine			
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7516	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
Baricitinib			
XW0DXM6	Introduction of Baricitinib into Mouth and Pharynx, External Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW0G7M6	Introduction of Baricitinib into Upper GI, Via Natural or Artificial Opening, New Technology Group 6	Procedure	ICD-10-PCS
XW0H7M6	Introduction of Baricitinib into Lower GI, Via Natural or Artificial Opening, New Technology Group 6	Procedure	ICD-10-PCS
Biologics			
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
J2327	Injection, risankizumab-rzaa, intravenous, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q5131	Injection, adalimumab-aacf (Idacio), biosimilar, 20 mg	Procedure	HCPCS
Q5132	Injection, adalimumab-afzb (Abralada), biosimilar, 10 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS

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

Code	Description	Code Category	Code Type
Alopecia			
L63	Alopecia areata	Diagnosis	ICD-10-CM
L63.0	Alopecia (capitis) totalis	Diagnosis	ICD-10-CM
L63.1	Alopecia universalis	Diagnosis	ICD-10-CM
L63.2	Ophiasis	Diagnosis	ICD-10-CM
L63.8	Other alopecia areata	Diagnosis	ICD-10-CM
L63.9	Alopecia areata, unspecified	Diagnosis	ICD-10-CM
Ulcerative Colitis			
K51	Ulcerative colitis	Diagnosis	ICD-10-CM
K51.0	Ulcerative (chronic) pancolitis	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.01	Ulcerative (chronic) pancolitis with complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.2	Ulcerative (chronic) proctitis	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.21	Ulcerative (chronic) proctitis with complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.3	Ulcerative (chronic) rectosigmoiditis	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.31	Ulcerative (chronic) rectosigmoiditis with complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.4	Inflammatory polyps of colon	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.41	Inflammatory polyps of colon with complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.5	Left sided colitis	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.51	Left sided colitis with complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.8	Other ulcerative colitis	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51.81	Other ulcerative colitis with complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.9	Ulcerative colitis, unspecified	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.91	Ulcerative colitis, unspecified, with complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
Crohn's Disease			
K50	Crohn's disease [regional enteritis]	Diagnosis	ICD-10-CM
K50.0	Crohn's disease of small intestine	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.01	Crohn's disease of small intestine with 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
K50.1	Crohn's disease of large intestine	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.11	Crohn's disease of large intestine with complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.8	Crohn's disease of both small and large intestine	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.81	Crohn's disease of both small and large intestine with 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

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

Code	Description	Code Category	Code Type
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
K50.9	Crohn's disease, unspecified	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.91	Crohn's disease, unspecified, with 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
Inflammatory Bowel Disease (IBD)			
K50	Crohn's disease [regional enteritis]	Diagnosis	ICD-10-CM
K50.0	Crohn's disease of small intestine	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.01	Crohn's disease of small intestine with 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
K50.1	Crohn's disease of large intestine	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.11	Crohn's disease of large intestine with complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.8	Crohn's disease of both small and large intestine	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.81	Crohn's disease of both small and large intestine with 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
K50.9	Crohn's disease, unspecified	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.91	Crohn's disease, unspecified, with 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

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

Code	Description	Code Category	Code Type
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51	Ulcerative colitis	Diagnosis	ICD-10-CM
K51.0	Ulcerative (chronic) pancolitis	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.01	Ulcerative (chronic) pancolitis with complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.2	Ulcerative (chronic) proctitis	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.21	Ulcerative (chronic) proctitis with complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.3	Ulcerative (chronic) rectosigmoiditis	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.31	Ulcerative (chronic) rectosigmoiditis with complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.4	Inflammatory polyps of colon	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.41	Inflammatory polyps of colon with complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.5	Left sided colitis	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.51	Left sided colitis with complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.8	Other ulcerative colitis	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K51.81	Other ulcerative colitis with complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.9	Ulcerative colitis, unspecified	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.91	Ulcerative colitis, unspecified, with complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
K52	Other and unspecified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.0	Gastroenteritis and colitis due to radiation	Diagnosis	ICD-10-CM
K52.1	Toxic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.2	Allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.3	Indeterminate colitis	Diagnosis	ICD-10-CM
K52.8	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.81	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K52.82	Eosinophilic colitis	Diagnosis	ICD-10-CM
K52.83	Microscopic colitis	Diagnosis	ICD-10-CM
K52.831	Collagenous colitis	Diagnosis	ICD-10-CM
K52.832	Lymphocytic colitis	Diagnosis	ICD-10-CM
K52.838	Other microscopic colitis	Diagnosis	ICD-10-CM
K52.839	Microscopic colitis, unspecified	Diagnosis	ICD-10-CM
K52.89	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.9	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
Atopic Dermatitis			
L20	Atopic dermatitis	Diagnosis	ICD-10-CM
L20.0	Besnier's prurigo	Diagnosis	ICD-10-CM
L20.8	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.81	Atopic neurodermatitis	Diagnosis	ICD-10-CM
L20.82	Flexural eczema	Diagnosis	ICD-10-CM
L20.83	Infantile (acute) (chronic) eczema	Diagnosis	ICD-10-CM
L20.84	Intrinsic (allergic) eczema	Diagnosis	ICD-10-CM
L20.89	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.9	Atopic dermatitis, unspecified	Diagnosis	ICD-10-CM
Psoriatic Arthritis			
L40	Psoriasis	Diagnosis	ICD-10-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
L40.5	Arthropathic 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
Rheumatoid Arthritis			
M05	Rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M05.0	Felty's syndrome	Diagnosis	ICD-10-CM
M05.00	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M05.01	Felty's syndrome, shoulder	Diagnosis	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M05.02	Felty's syndrome, elbow	Diagnosis	ICD-10-CM
M05.021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM
M05.022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M05.03	Felty's syndrome, wrist	Diagnosis	ICD-10-CM
M05.031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05.032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M05.04	Felty's syndrome, hand	Diagnosis	ICD-10-CM
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.05	Felty's syndrome, hip	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M05.06	Felty's syndrome, knee	Diagnosis	ICD-10-CM
M05.061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05.062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M05.07	Felty's syndrome, ankle and foot	Diagnosis	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M05.1	Rheumatoid lung disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.10	Rheumatoid lung disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.11	Rheumatoid lung disease with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.119	Rheumatoid lung disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.12	Rheumatoid lung disease with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.129	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.13	Rheumatoid lung disease with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.14	Rheumatoid lung disease with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.15	Rheumatoid lung disease with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.16	Rheumatoid lung disease with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.17	Rheumatoid lung disease with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.2	Rheumatoid vasculitis with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.21	Rheumatoid vasculitis with rheumatoid arthritis of shoulder	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
M05.22	Rheumatoid vasculitis with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M05.23	Rheumatoid vasculitis with rheumatoid arthritis of wrist	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
M05.24	Rheumatoid vasculitis with rheumatoid arthritis of hand	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
M05.25	Rheumatoid vasculitis with rheumatoid arthritis of hip	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
M05.26	Rheumatoid vasculitis with rheumatoid arthritis of knee	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
M05.27	Rheumatoid vasculitis with rheumatoid arthritis of ankle and foot	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
M05.3	Rheumatoid heart disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.31	Rheumatoid heart disease with rheumatoid arthritis of shoulder	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
M05.32	Rheumatoid heart disease with rheumatoid arthritis of elbow	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
M05.33	Rheumatoid heart disease with rheumatoid arthritis of wrist	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
M05.34	Rheumatoid heart disease with rheumatoid arthritis of hand	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
M05.35	Rheumatoid heart disease with rheumatoid arthritis of hip	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
M05.36	Rheumatoid heart disease with rheumatoid arthritis of knee	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

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.37	Rheumatoid heart disease with rheumatoid arthritis of ankle and foot	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
M05.4	Rheumatoid myopathy with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.41	Rheumatoid myopathy with rheumatoid arthritis of shoulder	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
M05.42	Rheumatoid myopathy with rheumatoid arthritis of elbow	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
M05.43	Rheumatoid myopathy with rheumatoid arthritis of wrist	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
M05.44	Rheumatoid myopathy with rheumatoid arthritis of hand	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
M05.45	Rheumatoid myopathy with rheumatoid arthritis of hip	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
M05.46	Rheumatoid myopathy with rheumatoid arthritis of knee	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
M05.47	Rheumatoid myopathy with rheumatoid arthritis of ankle and foot	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
M05.5	Rheumatoid polyneuropathy with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.51	Rheumatoid polyneuropathy with rheumatoid arthritis of shoulder	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
M05.52	Rheumatoid polyneuropathy with rheumatoid arthritis of elbow	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
M05.53	Rheumatoid polyneuropathy with rheumatoid arthritis of wrist	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

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.54	Rheumatoid polyneuropathy with rheumatoid arthritis of hand	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
M05.55	Rheumatoid polyneuropathy with rheumatoid arthritis of hip	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
M05.56	Rheumatoid polyneuropathy with rheumatoid arthritis of knee	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
M05.57	Rheumatoid polyneuropathy with rheumatoid arthritis of ankle and foot	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
M05.6	Rheumatoid arthritis with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.61	Rheumatoid arthritis of shoulder 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
M05.62	Rheumatoid arthritis of elbow 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
M05.63	Rheumatoid arthritis of wrist 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
M05.64	Rheumatoid arthritis of hand 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
M05.65	Rheumatoid arthritis of hip 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

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.66	Rheumatoid arthritis of knee 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
M05.67	Rheumatoid arthritis of ankle and foot 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
M05.7	Rheumatoid arthritis with rheumatoid factor without organ or systems involvement	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.71	Rheumatoid arthritis with rheumatoid factor of shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.72	Rheumatoid arthritis with rheumatoid factor of elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.73	Rheumatoid arthritis with rheumatoid factor of wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.74	Rheumatoid arthritis with rheumatoid factor of hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.75	Rheumatoid arthritis with rheumatoid factor of hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.76	Rheumatoid arthritis with rheumatoid factor of knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.77	Rheumatoid arthritis with rheumatoid factor of ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.7A	Rheumatoid arthritis with rheumatoid factor of other specified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.8	Other rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.81	Other rheumatoid arthritis with rheumatoid factor of shoulder	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
M05.82	Other rheumatoid arthritis with rheumatoid factor of elbow	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
M05.83	Other rheumatoid arthritis with rheumatoid factor of wrist	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
M05.84	Other rheumatoid arthritis with rheumatoid factor of hand	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
M05.85	Other rheumatoid arthritis with rheumatoid factor of hip	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

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.86	Other rheumatoid arthritis with rheumatoid factor of knee	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
M05.87	Other rheumatoid arthritis with rheumatoid factor of ankle and foot	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.8A	Other rheumatoid arthritis with rheumatoid factor of other specified site	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06	Other rheumatoid arthritis	Diagnosis	ICD-10-CM
M06.0	Rheumatoid arthritis without rheumatoid factor	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.01	Rheumatoid arthritis without rheumatoid factor, shoulder	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
M06.02	Rheumatoid arthritis without rheumatoid factor, elbow	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
M06.03	Rheumatoid arthritis without rheumatoid factor, wrist	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
M06.04	Rheumatoid arthritis without rheumatoid factor, hand	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
M06.05	Rheumatoid arthritis without rheumatoid factor, hip	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
M06.06	Rheumatoid arthritis without rheumatoid factor, knee	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
M06.07	Rheumatoid arthritis without rheumatoid factor, ankle and foot	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.0A	Rheumatoid arthritis without rheumatoid factor, other specified site	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.2	Rheumatoid bursitis	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M06.21	Rheumatoid bursitis, shoulder	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
M06.22	Rheumatoid bursitis, elbow	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
M06.23	Rheumatoid bursitis, wrist	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
M06.24	Rheumatoid bursitis, hand	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
M06.25	Rheumatoid bursitis, hip	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
M06.26	Rheumatoid bursitis, knee	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
M06.27	Rheumatoid bursitis, ankle and foot	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
M06.3	Rheumatoid nodule	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.31	Rheumatoid nodule, shoulder	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
M06.32	Rheumatoid nodule, elbow	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
M06.33	Rheumatoid nodule, wrist	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
M06.34	Rheumatoid nodule, hand	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
M06.35	Rheumatoid nodule, hip	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M06.36	Rheumatoid nodule, knee	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
M06.37	Rheumatoid nodule, ankle and foot	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
M06.4	Inflammatory polyarthropathy	Diagnosis	ICD-10-CM
M06.8	Other specified rheumatoid arthritis	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.81	Other specified rheumatoid arthritis, shoulder	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
M06.82	Other specified rheumatoid arthritis, elbow	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
M06.83	Other specified rheumatoid arthritis, wrist	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
M06.84	Other specified rheumatoid arthritis, hand	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
M06.85	Other specified rheumatoid arthritis, hip	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
M06.86	Other specified rheumatoid arthritis, knee	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
M06.87	Other specified rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.8A	Other specified rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08	Juvenile arthritis	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M08.0	Unspecified juvenile rheumatoid arthritis	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.01	Unspecified juvenile rheumatoid arthritis, shoulder	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
M08.02	Unspecified juvenile rheumatoid arthritis of elbow	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
M08.03	Unspecified juvenile rheumatoid arthritis, wrist	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
M08.04	Unspecified juvenile rheumatoid arthritis, hand	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
M08.05	Unspecified juvenile rheumatoid arthritis, hip	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
M08.06	Unspecified juvenile rheumatoid arthritis, knee	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
M08.07	Unspecified juvenile rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.0A	Unspecified juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.2	Juvenile rheumatoid arthritis with systemic onset	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.21	Juvenile rheumatoid arthritis with systemic onset, shoulder	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
M08.22	Juvenile rheumatoid arthritis with systemic onset, elbow	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
M08.23	Juvenile rheumatoid arthritis with systemic onset, wrist	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
M08.24	Juvenile rheumatoid arthritis with systemic onset, hand	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M08.25	Juvenile rheumatoid arthritis with systemic onset, hip	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
M08.26	Juvenile rheumatoid arthritis with systemic onset, knee	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
M08.27	Juvenile rheumatoid arthritis with systemic onset, ankle and foot	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.2A	Juvenile rheumatoid arthritis with systemic onset, other specified site	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.4	Pauciarticular juvenile rheumatoid arthritis	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.41	Pauciarticular juvenile rheumatoid arthritis, shoulder	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
M08.42	Pauciarticular juvenile rheumatoid arthritis, elbow	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
M08.43	Pauciarticular juvenile rheumatoid arthritis, wrist	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
M08.44	Pauciarticular juvenile rheumatoid arthritis, hand	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
M08.45	Pauciarticular juvenile rheumatoid arthritis, hip	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
M08.46	Pauciarticular juvenile rheumatoid arthritis, knee	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
M08.47	Pauciarticular juvenile rheumatoid arthritis, ankle and foot	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

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.4A	Pauciarticular juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.8	Other juvenile arthritis	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.81	Other juvenile arthritis, shoulder	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
M08.82	Other juvenile arthritis, elbow	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
M08.83	Other juvenile arthritis, wrist	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
M08.84	Other juvenile arthritis, hand	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
M08.85	Other juvenile arthritis, hip	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
M08.86	Other juvenile arthritis, knee	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
M08.87	Other juvenile arthritis, ankle and foot	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
M08.9	Juvenile arthritis, unspecified	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.91	Juvenile arthritis, unspecified, shoulder	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
M08.92	Juvenile arthritis, unspecified, elbow	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
M08.93	Juvenile arthritis, unspecified, wrist	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
M08.94	Juvenile arthritis, unspecified, hand	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M08.95	Juvenile arthritis, unspecified, hip	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
M08.96	Juvenile arthritis, unspecified, knee	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
M08.97	Juvenile arthritis, unspecified, ankle and foot	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
M08.9A	Juvenile arthritis, unspecified, other specified site	Diagnosis	ICD-10-CM
Ankylosing Spondylitis and Other Inflammatory Spondyloarthropathies			
M45	Ankylosing spondylitis	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A	Non-radiographic axial spondyloarthritis	Diagnosis	ICD-10-CM
M45.A0	Non-radiographic axial spondyloarthritis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A1	Non-radiographic axial spondyloarthritis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.A2	Non-radiographic axial spondyloarthritis of cervical region	Diagnosis	ICD-10-CM
M45.A3	Non-radiographic axial spondyloarthritis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.A4	Non-radiographic axial spondyloarthritis of thoracic region	Diagnosis	ICD-10-CM
M45.A5	Non-radiographic axial spondyloarthritis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.A6	Non-radiographic axial spondyloarthritis of lumbar region	Diagnosis	ICD-10-CM
M45.A7	Non-radiographic axial spondyloarthritis of lumbosacral region	Diagnosis	ICD-10-CM
M45.A8	Non-radiographic axial spondyloarthritis of sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.AB	Non-radiographic axial spondyloarthritis of multiple sites in spine	Diagnosis	ICD-10-CM
M46	Other inflammatory spondylopathies	Diagnosis	ICD-10-CM
M46.0	Spinal enthesopathy	Diagnosis	ICD-10-CM
M46.00	Spinal enthesopathy, site unspecified	Diagnosis	ICD-10-CM
M46.01	Spinal enthesopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.02	Spinal enthesopathy, cervical region	Diagnosis	ICD-10-CM
M46.03	Spinal enthesopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.04	Spinal enthesopathy, thoracic region	Diagnosis	ICD-10-CM
M46.05	Spinal enthesopathy, thoracolumbar region	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M46.06	Spinal enthesopathy, lumbar region	Diagnosis	ICD-10-CM
M46.07	Spinal enthesopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.08	Spinal enthesopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.09	Spinal enthesopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M46.1	Sacroiliitis, not elsewhere classified	Diagnosis	ICD-10-CM
M46.2	Osteomyelitis of vertebra	Diagnosis	ICD-10-CM
M46.20	Osteomyelitis of vertebra, site unspecified	Diagnosis	ICD-10-CM
M46.21	Osteomyelitis of vertebra, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.22	Osteomyelitis of vertebra, cervical region	Diagnosis	ICD-10-CM
M46.23	Osteomyelitis of vertebra, cervicothoracic region	Diagnosis	ICD-10-CM
M46.24	Osteomyelitis of vertebra, thoracic region	Diagnosis	ICD-10-CM
M46.25	Osteomyelitis of vertebra, thoracolumbar region	Diagnosis	ICD-10-CM
M46.26	Osteomyelitis of vertebra, lumbar region	Diagnosis	ICD-10-CM
M46.27	Osteomyelitis of vertebra, lumbosacral region	Diagnosis	ICD-10-CM
M46.28	Osteomyelitis of vertebra, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.3	Infection of intervertebral disc (pyogenic)	Diagnosis	ICD-10-CM
M46.30	Infection of intervertebral disc (pyogenic), site unspecified	Diagnosis	ICD-10-CM
M46.31	Infection of intervertebral disc (pyogenic), occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.32	Infection of intervertebral disc (pyogenic), cervical region	Diagnosis	ICD-10-CM
M46.33	Infection of intervertebral disc (pyogenic), cervicothoracic region	Diagnosis	ICD-10-CM
M46.34	Infection of intervertebral disc (pyogenic), thoracic region	Diagnosis	ICD-10-CM
M46.35	Infection of intervertebral disc (pyogenic), thoracolumbar region	Diagnosis	ICD-10-CM
M46.36	Infection of intervertebral disc (pyogenic), lumbar region	Diagnosis	ICD-10-CM
M46.37	Infection of intervertebral disc (pyogenic), lumbosacral region	Diagnosis	ICD-10-CM
M46.38	Infection of intervertebral disc (pyogenic), sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.39	Infection of intervertebral disc (pyogenic), multiple sites in spine	Diagnosis	ICD-10-CM
M46.4	Discitis, unspecified	Diagnosis	ICD-10-CM
M46.40	Discitis, unspecified, site unspecified	Diagnosis	ICD-10-CM
M46.41	Discitis, unspecified, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.42	Discitis, unspecified, cervical region	Diagnosis	ICD-10-CM
M46.43	Discitis, unspecified, cervicothoracic region	Diagnosis	ICD-10-CM
M46.44	Discitis, unspecified, thoracic region	Diagnosis	ICD-10-CM
M46.45	Discitis, unspecified, thoracolumbar region	Diagnosis	ICD-10-CM
M46.46	Discitis, unspecified, lumbar region	Diagnosis	ICD-10-CM
M46.47	Discitis, unspecified, lumbosacral region	Diagnosis	ICD-10-CM
M46.48	Discitis, unspecified, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.49	Discitis, unspecified, multiple sites in spine	Diagnosis	ICD-10-CM
M46.5	Other infective spondylopathies	Diagnosis	ICD-10-CM
M46.50	Other infective spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.51	Other infective spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.52	Other infective spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.53	Other infective spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.54	Other infective spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.55	Other infective spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.56	Other infective spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.57	Other infective spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.58	Other infective spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.59	Other infective spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.8	Other specified inflammatory spondylopathies	Diagnosis	ICD-10-CM

Appendix F. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
M46.80	Other specified inflammatory spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.81	Other specified inflammatory spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.82	Other specified inflammatory spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.83	Other specified inflammatory spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.84	Other specified inflammatory spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.85	Other specified inflammatory spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.86	Other specified inflammatory spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.87	Other specified inflammatory spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.88	Other specified inflammatory spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.89	Other specified inflammatory spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.9	Unspecified inflammatory spondylopathy	Diagnosis	ICD-10-CM
M46.90	Unspecified inflammatory spondylopathy, site unspecified	Diagnosis	ICD-10-CM
M46.91	Unspecified inflammatory spondylopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.92	Unspecified inflammatory spondylopathy, cervical region	Diagnosis	ICD-10-CM
M46.93	Unspecified inflammatory spondylopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.94	Unspecified inflammatory spondylopathy, thoracic region	Diagnosis	ICD-10-CM
M46.95	Unspecified inflammatory spondylopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.96	Unspecified inflammatory spondylopathy, lumbar region	Diagnosis	ICD-10-CM
M46.97	Unspecified inflammatory spondylopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.98	Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.99	Unspecified inflammatory spondylopathy, multiple sites in spine	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
Acute Myocardial Infarction			
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I23.0	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
Diabetes			
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	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
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	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

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

Code	Description	Code Category	Code Type
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
Hyperlipidemia			
E78.0	Pure hypercholesterolemia	Diagnosis	ICD-10-CM
E78.00	Pure hypercholesterolemia, unspecified	Diagnosis	ICD-10-CM
E78.01	Familial hypercholesterolemia	Diagnosis	ICD-10-CM
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.41	Elevated Lipoprotein(a)	Diagnosis	ICD-10-CM
E78.49	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	Diagnosis	ICD-10-CM
Hypertension			
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
Depression			
F06.31	Mood disorder due to known physiological condition with depressive features	Diagnosis	ICD-10-CM
F06.32	Mood disorder due to known physiological condition with major depressive-like episode	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.8	Other depressive episodes	Diagnosis	ICD-10-CM
F32.89	Other specified depressive episodes	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F32.A	Depression, unspecified	Diagnosis	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F34.0	Cyclothymic disorder	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
Ischemic Heart Disease			
I20.0	Unstable angina	Diagnosis	ICD-10-CM
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
Stroke/Transient Ischemic Attack (TIA)			
G45.0	Vertebro-basilar artery syndrome	Diagnosis	ICD-10-CM
G45.1	Carotid artery syndrome (hemispheric)	Diagnosis	ICD-10-CM
G45.2	Multiple and bilateral precerebral artery syndromes	Diagnosis	ICD-10-CM
G45.3	Amaurosis fugax	Diagnosis	ICD-10-CM
G45.8	Other transient cerebral ischemic attacks and related syndromes	Diagnosis	ICD-10-CM
G45.9	Transient cerebral ischemic attack, unspecified	Diagnosis	ICD-10-CM
G46.0	Middle cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.1	Anterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.2	Posterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.3	Brain stem stroke syndrome	Diagnosis	ICD-10-CM
G46.4	Cerebellar stroke syndrome	Diagnosis	ICD-10-CM
G46.5	Pure motor lacunar syndrome	Diagnosis	ICD-10-CM
G46.6	Pure sensory lacunar syndrome	Diagnosis	ICD-10-CM
G46.7	Other lacunar syndromes	Diagnosis	ICD-10-CM
G46.8	Other vascular syndromes of brain in cerebrovascular diseases	Diagnosis	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	Diagnosis	ICD-10-CM
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	Diagnosis	ICD-10-CM
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	Diagnosis	ICD-10-CM
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Diagnosis	ICD-10-CM
I60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Diagnosis	ICD-10-CM
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Diagnosis	ICD-10-CM
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Diagnosis	ICD-10-CM
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	Diagnosis	ICD-10-CM
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	Diagnosis	ICD-10-CM
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Diagnosis	ICD-10-CM
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Diagnosis	ICD-10-CM
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Diagnosis	ICD-10-CM
I60.8	Other nontraumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Diagnosis	ICD-10-CM
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Diagnosis	ICD-10-CM
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Diagnosis	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	Diagnosis	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	Diagnosis	ICD-10-CM
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	Diagnosis	ICD-10-CM
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	Diagnosis	ICD-10-CM
I61.8	Other nontraumatic intracerebral hemorrhage	Diagnosis	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.00	Nontraumatic subdural hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.01	Nontraumatic acute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.02	Nontraumatic subacute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.9	Nontraumatic intracranial hemorrhage, unspecified	Diagnosis	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.02	Cerebral infarction due to thrombosis of basilar artery	Diagnosis	ICD-10-CM
I63.031	Cerebral infarction due to thrombosis of right carotid artery	Diagnosis	ICD-10-CM
I63.032	Cerebral infarction due to thrombosis of left carotid artery	Diagnosis	ICD-10-CM
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.09	Cerebral infarction due to thrombosis of other precerebral artery	Diagnosis	ICD-10-CM
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.111	Cerebral infarction due to embolism of right vertebral artery	Diagnosis	ICD-10-CM
I63.112	Cerebral infarction due to embolism of left vertebral artery	Diagnosis	ICD-10-CM
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.12	Cerebral infarction due to embolism of basilar artery	Diagnosis	ICD-10-CM
I63.131	Cerebral infarction due to embolism of right carotid artery	Diagnosis	ICD-10-CM
I63.132	Cerebral infarction due to embolism of left carotid artery	Diagnosis	ICD-10-CM
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.19	Cerebral infarction due to embolism of other precerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Diagnosis	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Diagnosis	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.441	Cerebral infarction due to embolism of right cerebellar artery	Diagnosis	ICD-10-CM
I63.442	Cerebral infarction due to embolism of left cerebellar artery	Diagnosis	ICD-10-CM
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.49	Cerebral infarction due to embolism of other cerebral artery	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I63.89	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.9	Cerebral infarction, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I67.841	Reversible cerebrovascular vasoconstriction syndrome	Diagnosis	ICD-10-CM
I67.848	Other cerebrovascular vasospasm and vasoconstriction	Diagnosis	ICD-10-CM
I67.89	Other cerebrovascular disease	Diagnosis	ICD-10-CM
I97.810	Intraoperative cerebrovascular infarction during cardiac surgery	Diagnosis	ICD-10-CM
I97.811	Intraoperative cerebrovascular infarction during other surgery	Diagnosis	ICD-10-CM
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	Diagnosis	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	Diagnosis	ICD-10-CM
Asthma			
J45	Asthma	Diagnosis	ICD-10-CM
J45.2	Mild intermittent asthma	Diagnosis	ICD-10-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.3	Mild persistent asthma	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.4	Moderate persistent asthma	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.5	Severe persistent asthma	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.9	Other and unspecified asthma	Diagnosis	ICD-10-CM
J45.90	Unspecified asthma	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.99	Other asthma	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
Chronic Kidney Disease			
A18.11	Tuberculosis of kidney and ureter	Diagnosis	ICD-10-CM
A52.75	Syphilis of kidney and ureter	Diagnosis	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	Diagnosis	ICD-10-CM
M10.311	Gout due to renal impairment, right shoulder	Diagnosis	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	Diagnosis	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	Diagnosis	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	Diagnosis	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	Diagnosis	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	Diagnosis	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	Diagnosis	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	Diagnosis	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	Diagnosis	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	Diagnosis	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	Diagnosis	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	Diagnosis	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	Diagnosis	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	Diagnosis	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	Diagnosis	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	Diagnosis	ICD-10-CM
M10.362	Gout due to renal impairment, left knee	Diagnosis	ICD-10-CM
M10.369	Gout due to renal impairment, unspecified knee	Diagnosis	ICD-10-CM
M10.371	Gout due to renal impairment, right ankle and foot	Diagnosis	ICD-10-CM
M10.372	Gout due to renal impairment, left ankle and foot	Diagnosis	ICD-10-CM
M10.379	Gout due to renal impairment, unspecified ankle and foot	Diagnosis	ICD-10-CM
M10.38	Gout due to renal impairment, vertebrae	Diagnosis	ICD-10-CM
M10.39	Gout due to renal impairment, multiple sites	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
M35.04	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.0A	Sjogren syndrome with glomerular disease	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.A	Rapidly progressive nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.A	Recurrent and persistent hematuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.A	Chronic nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.A	Nephrotic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.A	Unspecified nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N06.A	Isolated proteinuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N07.A	Hereditary nephropathy, not elsewhere classified with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
N99.0	Postprocedural (acute) (chronic) kidney failure	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
COPD and Bronchiectasis			
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J47.1	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
J98.2	Interstitial emphysema	Diagnosis	ICD-10-CM
J98.3	Compensatory emphysema	Diagnosis	ICD-10-CM
Alopecia (capitis) totalis			
L63.0	Alopecia (capitis) totalis	Diagnosis	ICD-10-CM
Alopecia universalis			
L63.1	Alopecia universalis	Diagnosis	ICD-10-CM
Noninfective enteritis and colitis			
K50	Crohn's disease [regional enteritis]	Diagnosis	ICD-10-CM
K50.0	Crohn's disease of small intestine	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.01	Crohn's disease of small intestine with 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
K50.1	Crohn's disease of large intestine	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.11	Crohn's disease of large intestine with complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.8	Crohn's disease of both small and large intestine	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.81	Crohn's disease of both small and large intestine with 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
K50.9	Crohn's disease, unspecified	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.91	Crohn's disease, unspecified, with complications	Diagnosis	ICD-10-CM
K50.911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50.912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50.913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50.914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50.918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51	Ulcerative colitis	Diagnosis	ICD-10-CM
K51.0	Ulcerative (chronic) pancolitis	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.01	Ulcerative (chronic) pancolitis with complications	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.2	Ulcerative (chronic) proctitis	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.21	Ulcerative (chronic) proctitis with complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.3	Ulcerative (chronic) rectosigmoiditis	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.31	Ulcerative (chronic) rectosigmoiditis with complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.4	Inflammatory polyps of colon	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.41	Inflammatory polyps of colon with complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.5	Left sided colitis	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.51	Left sided colitis with complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.8	Other ulcerative colitis	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51.81	Other ulcerative colitis with complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.9	Ulcerative colitis, unspecified	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.91	Ulcerative colitis, unspecified, with complications	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
K52	Other and unspecified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.0	Gastroenteritis and colitis due to radiation	Diagnosis	ICD-10-CM
K52.1	Toxic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.2	Allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.3	Indeterminate colitis	Diagnosis	ICD-10-CM
K52.8	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.81	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K52.82	Eosinophilic colitis	Diagnosis	ICD-10-CM
K52.83	Microscopic colitis	Diagnosis	ICD-10-CM
K52.831	Collagenous colitis	Diagnosis	ICD-10-CM
K52.832	Lymphocytic colitis	Diagnosis	ICD-10-CM
K52.838	Other microscopic colitis	Diagnosis	ICD-10-CM
K52.839	Microscopic colitis, unspecified	Diagnosis	ICD-10-CM
K52.89	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.9	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
Atopic dermatitis			
L20	Atopic dermatitis	Diagnosis	ICD-10-CM
L20.0	Besnier's prurigo	Diagnosis	ICD-10-CM
L20.8	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.81	Atopic neurodermatitis	Diagnosis	ICD-10-CM
L20.82	Flexural eczema	Diagnosis	ICD-10-CM
L20.83	Infantile (acute) (chronic) eczema	Diagnosis	ICD-10-CM
L20.84	Intrinsic (allergic) eczema	Diagnosis	ICD-10-CM
L20.89	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.9	Atopic dermatitis, unspecified	Diagnosis	ICD-10-CM
Psoriatic arthritis			
L40	Psoriasis	Diagnosis	ICD-10-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
L40.5	Arthropathic 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
Lupus erythematosus			
L93	Lupus erythematosus	Diagnosis	ICD-10-CM
L93.0	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
L93.1	Subacute cutaneous lupus erythematosus	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L93.2	Other local lupus erythematosus	Diagnosis	ICD-10-CM
Vitiligo			
L80	Vitiligo	Diagnosis	ICD-10-CM
Systemic connective tissue disorders			
M30	Polyarteritis nodosa and related conditions	Diagnosis	ICD-10-CM
M30.0	Polyarteritis nodosa	Diagnosis	ICD-10-CM
M30.1	Polyarteritis with lung involvement [Churg-Strauss]	Diagnosis	ICD-10-CM
M30.2	Juvenile polyarteritis	Diagnosis	ICD-10-CM
M30.3	Mucocutaneous lymph node syndrome [Kawasaki]	Diagnosis	ICD-10-CM
M30.8	Other conditions related to polyarteritis nodosa	Diagnosis	ICD-10-CM
M31	Other necrotizing vasculopathies	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angiitis	Diagnosis	ICD-10-CM
M31.1	Thrombotic microangiopathy	Diagnosis	ICD-10-CM
M31.10	Thrombotic microangiopathy, unspecified	Diagnosis	ICD-10-CM
M31.11	Hematopoietic stem cell transplantation-associated thrombotic microangiopathy [HSCT-TMA]	Diagnosis	ICD-10-CM
M31.19	Other thrombotic microangiopathy	Diagnosis	ICD-10-CM
M31.2	Lethal midline granuloma	Diagnosis	ICD-10-CM
M31.3	Wegener's granulomatosis	Diagnosis	ICD-10-CM
M31.30	Wegener's granulomatosis without renal involvement	Diagnosis	ICD-10-CM
M31.31	Wegener's granulomatosis with renal involvement	Diagnosis	ICD-10-CM
M31.4	Aortic arch syndrome [Takayasu]	Diagnosis	ICD-10-CM
M31.5	Giant cell arteritis with polymyalgia rheumatica	Diagnosis	ICD-10-CM
M31.6	Other giant cell arteritis	Diagnosis	ICD-10-CM
M31.7	Microscopic polyangiitis	Diagnosis	ICD-10-CM
M31.8	Other specified necrotizing vasculopathies	Diagnosis	ICD-10-CM
M31.9	Necrotizing vasculopathy, unspecified	Diagnosis	ICD-10-CM
M32	Systemic lupus erythematosus (SLE)	Diagnosis	ICD-10-CM
M32.0	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.1	Systemic lupus erythematosus with organ or system involvement	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	Dermatopolymyositis	Diagnosis	ICD-10-CM
M33.0	Juvenile dermatomyositis	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
M33.1	Other dermatomyositis	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
M33.2	Polymyositis	Diagnosis	ICD-10-CM
M33.20	Polymyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.21	Polymyositis with respiratory involvement	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M33.22	Polymyositis with myopathy	Diagnosis	ICD-10-CM
M33.29	Polymyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.9	Dermatopolymyositis, unspecified	Diagnosis	ICD-10-CM
M33.90	Dermatopolymyositis, unspecified, organ involvement unspecified	Diagnosis	ICD-10-CM
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
M34	Systemic sclerosis [scleroderma]	Diagnosis	ICD-10-CM
M34.0	Progressive systemic sclerosis	Diagnosis	ICD-10-CM
M34.1	CR(E)ST syndrome	Diagnosis	ICD-10-CM
M34.2	Systemic sclerosis induced by drug and chemical	Diagnosis	ICD-10-CM
M34.8	Other forms of systemic sclerosis	Diagnosis	ICD-10-CM
M34.81	Systemic sclerosis with lung involvement	Diagnosis	ICD-10-CM
M34.82	Systemic sclerosis with myopathy	Diagnosis	ICD-10-CM
M34.83	Systemic sclerosis with polyneuropathy	Diagnosis	ICD-10-CM
M34.89	Other systemic sclerosis	Diagnosis	ICD-10-CM
M34.9	Systemic sclerosis, unspecified	Diagnosis	ICD-10-CM
M35	Other systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M35.0	Sjogren syndrome	Diagnosis	ICD-10-CM
M35.00	Sjogren syndrome, unspecified	Diagnosis	ICD-10-CM
M35.01	Sjogren syndrome with keratoconjunctivitis	Diagnosis	ICD-10-CM
M35.02	Sjogren syndrome with lung involvement	Diagnosis	ICD-10-CM
M35.03	Sjogren syndrome with myopathy	Diagnosis	ICD-10-CM
M35.04	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.05	Sjogren syndrome with inflammatory arthritis	Diagnosis	ICD-10-CM
M35.06	Sjogren syndrome with peripheral nervous system involvement	Diagnosis	ICD-10-CM
M35.07	Sjogren syndrome with central nervous system involvement	Diagnosis	ICD-10-CM
M35.08	Sjogren syndrome with gastrointestinal involvement	Diagnosis	ICD-10-CM
M35.09	Sjogren syndrome with other organ involvement	Diagnosis	ICD-10-CM
M35.0A	Sjogren syndrome with glomerular disease	Diagnosis	ICD-10-CM
M35.0B	Sjogren syndrome with vasculitis	Diagnosis	ICD-10-CM
M35.0C	Sjogren syndrome with dental involvement	Diagnosis	ICD-10-CM
M35.1	Other overlap syndromes	Diagnosis	ICD-10-CM
M35.2	Behcet's disease	Diagnosis	ICD-10-CM
M35.3	Polymyalgia rheumatica	Diagnosis	ICD-10-CM
M35.4	Diffuse (eosinophilic) fasciitis	Diagnosis	ICD-10-CM
M35.5	Multifocal fibrosclerosis	Diagnosis	ICD-10-CM
M35.6	Relapsing panniculitis [Weber-Christian]	Diagnosis	ICD-10-CM
M35.7	Hypermobility syndrome	Diagnosis	ICD-10-CM
M35.8	Other specified systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M35.81	Multisystem inflammatory syndrome	Diagnosis	ICD-10-CM
M35.89	Other specified systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M35.9	Systemic involvement of connective tissue, unspecified	Diagnosis	ICD-10-CM
M36	Systemic disorders of connective tissue in diseases classified elsewhere	Diagnosis	ICD-10-CM
M36.0	Dermato(poly)myositis in neoplastic disease	Diagnosis	ICD-10-CM
M36.1	Arthropathy in neoplastic disease	Diagnosis	ICD-10-CM
M36.2	Hemophilic arthropathy	Diagnosis	ICD-10-CM
M36.3	Arthropathy in other blood disorders	Diagnosis	ICD-10-CM
M36.4	Arthropathy in hypersensitivity reactions classified elsewhere	Diagnosis	ICD-10-CM
M36.8	Systemic disorders of connective tissue in other diseases classified elsewhere	Diagnosis	ICD-10-CM
Ankylosing Spondylitis and Other Inflammatory Spondyloarthropathies			
M45	Ankylosing spondylitis	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A	Non-radiographic axial spondyloarthritis	Diagnosis	ICD-10-CM
M45.A0	Non-radiographic axial spondyloarthritis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A1	Non-radiographic axial spondyloarthritis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.A2	Non-radiographic axial spondyloarthritis of cervical region	Diagnosis	ICD-10-CM
M45.A3	Non-radiographic axial spondyloarthritis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.A4	Non-radiographic axial spondyloarthritis of thoracic region	Diagnosis	ICD-10-CM
M45.A5	Non-radiographic axial spondyloarthritis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.A6	Non-radiographic axial spondyloarthritis of lumbar region	Diagnosis	ICD-10-CM
M45.A7	Non-radiographic axial spondyloarthritis of lumbosacral region	Diagnosis	ICD-10-CM
M45.A8	Non-radiographic axial spondyloarthritis of sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.AB	Non-radiographic axial spondyloarthritis of multiple sites in spine	Diagnosis	ICD-10-CM
M46	Other inflammatory spondylopathies	Diagnosis	ICD-10-CM
M46.0	Spinal enthesopathy	Diagnosis	ICD-10-CM
M46.00	Spinal enthesopathy, site unspecified	Diagnosis	ICD-10-CM
M46.01	Spinal enthesopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.02	Spinal enthesopathy, cervical region	Diagnosis	ICD-10-CM
M46.03	Spinal enthesopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.04	Spinal enthesopathy, thoracic region	Diagnosis	ICD-10-CM
M46.05	Spinal enthesopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.06	Spinal enthesopathy, lumbar region	Diagnosis	ICD-10-CM
M46.07	Spinal enthesopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.08	Spinal enthesopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.09	Spinal enthesopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M46.1	Sacroiliitis, not elsewhere classified	Diagnosis	ICD-10-CM
M46.2	Osteomyelitis of vertebra	Diagnosis	ICD-10-CM
M46.20	Osteomyelitis of vertebra, site unspecified	Diagnosis	ICD-10-CM
M46.21	Osteomyelitis of vertebra, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.22	Osteomyelitis of vertebra, cervical region	Diagnosis	ICD-10-CM
M46.23	Osteomyelitis of vertebra, cervicothoracic region	Diagnosis	ICD-10-CM
M46.24	Osteomyelitis of vertebra, thoracic region	Diagnosis	ICD-10-CM
M46.25	Osteomyelitis of vertebra, thoracolumbar region	Diagnosis	ICD-10-CM
M46.26	Osteomyelitis of vertebra, lumbar region	Diagnosis	ICD-10-CM
M46.27	Osteomyelitis of vertebra, lumbosacral region	Diagnosis	ICD-10-CM
M46.28	Osteomyelitis of vertebra, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.3	Infection of intervertebral disc (pyogenic)	Diagnosis	ICD-10-CM
M46.30	Infection of intervertebral disc (pyogenic), site unspecified	Diagnosis	ICD-10-CM
M46.31	Infection of intervertebral disc (pyogenic), occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.32	Infection of intervertebral disc (pyogenic), cervical region	Diagnosis	ICD-10-CM
M46.33	Infection of intervertebral disc (pyogenic), cervicothoracic region	Diagnosis	ICD-10-CM
M46.34	Infection of intervertebral disc (pyogenic), thoracic region	Diagnosis	ICD-10-CM
M46.35	Infection of intervertebral disc (pyogenic), thoracolumbar region	Diagnosis	ICD-10-CM
M46.36	Infection of intervertebral disc (pyogenic), lumbar region	Diagnosis	ICD-10-CM
M46.37	Infection of intervertebral disc (pyogenic), lumbosacral region	Diagnosis	ICD-10-CM
M46.38	Infection of intervertebral disc (pyogenic), sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.39	Infection of intervertebral disc (pyogenic), multiple sites in spine	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M46.4	Discitis, unspecified	Diagnosis	ICD-10-CM
M46.40	Discitis, unspecified, site unspecified	Diagnosis	ICD-10-CM
M46.41	Discitis, unspecified, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.42	Discitis, unspecified, cervical region	Diagnosis	ICD-10-CM
M46.43	Discitis, unspecified, cervicothoracic region	Diagnosis	ICD-10-CM
M46.44	Discitis, unspecified, thoracic region	Diagnosis	ICD-10-CM
M46.45	Discitis, unspecified, thoracolumbar region	Diagnosis	ICD-10-CM
M46.46	Discitis, unspecified, lumbar region	Diagnosis	ICD-10-CM
M46.47	Discitis, unspecified, lumbosacral region	Diagnosis	ICD-10-CM
M46.48	Discitis, unspecified, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.49	Discitis, unspecified, multiple sites in spine	Diagnosis	ICD-10-CM
M46.5	Other infective spondylopathies	Diagnosis	ICD-10-CM
M46.50	Other infective spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.51	Other infective spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.52	Other infective spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.53	Other infective spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.54	Other infective spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.55	Other infective spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.56	Other infective spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.57	Other infective spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.58	Other infective spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.59	Other infective spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.8	Other specified inflammatory spondylopathies	Diagnosis	ICD-10-CM
M46.80	Other specified inflammatory spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.81	Other specified inflammatory spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.82	Other specified inflammatory spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.83	Other specified inflammatory spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.84	Other specified inflammatory spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.85	Other specified inflammatory spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.86	Other specified inflammatory spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.87	Other specified inflammatory spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.88	Other specified inflammatory spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.89	Other specified inflammatory spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.9	Unspecified inflammatory spondylopathy	Diagnosis	ICD-10-CM
M46.90	Unspecified inflammatory spondylopathy, site unspecified	Diagnosis	ICD-10-CM
M46.91	Unspecified inflammatory spondylopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.92	Unspecified inflammatory spondylopathy, cervical region	Diagnosis	ICD-10-CM
M46.93	Unspecified inflammatory spondylopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.94	Unspecified inflammatory spondylopathy, thoracic region	Diagnosis	ICD-10-CM
M46.95	Unspecified inflammatory spondylopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.96	Unspecified inflammatory spondylopathy, lumbar region	Diagnosis	ICD-10-CM
M46.97	Unspecified inflammatory spondylopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.98	Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.99	Unspecified inflammatory spondylopathy, multiple sites in spine	Diagnosis	ICD-10-CM
DVT			
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
I80.221	Phlebitis and thrombophlebitis of right popliteal vein	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
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
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
I80.9	Phlebitis and thrombophlebitis of unspecified site	Diagnosis	ICD-10-CM
I82.1	Thrombophlebitis migrans	Diagnosis	ICD-10-CM
I82.220	Acute embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I82.221	Chronic embolism and thrombosis of inferior vena cava	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
I82.91	Chronic embolism and thrombosis of unspecified vein	Diagnosis	ICD-10-CM
Pulmonary embolism			
I26.01	Septic pulmonary embolism with acute cor pulmonale	Diagnosis	ICD-10-CM
I26.02	Saddle embolus of pulmonary artery 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

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

Code	Description	Code Category	Code Type
I26.92	Saddle embolus of pulmonary artery 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
Cirrhosis or cirrhosis-related complication			
C22.0	Liver cell carcinoma	Diagnosis	ICD-10-CM
G31.2	Degeneration of nervous system due to alcohol	Diagnosis	ICD-10-CM
G93.4	Other and unspecified encephalopathy	Diagnosis	ICD-10-CM
I85.0	Esophageal varices	Diagnosis	ICD-10-CM
I85.9	Oesophageal varices without bleeding	Diagnosis	ICD-10-CM
I86.4	Gastric varices	Diagnosis	ICD-10-CM
I98.2	Oesophageal varices without bleeding in diseases classified elsewhere	Diagnosis	ICD-10-CM
I98.3	Oesophageal varices with bleeding in diseases classified elsewhere	Diagnosis	ICD-10-CM
K65.0	Generalized (acute) peritonitis	Diagnosis	ICD-10-CM
K65.9	Peritonitis, unspecified	Diagnosis	ICD-10-CM
K70.3	Alcoholic cirrhosis of liver	Diagnosis	ICD-10-CM
K74.4	Secondary biliary cirrhosis	Diagnosis	ICD-10-CM
K74.5	Biliary cirrhosis, unspecified	Diagnosis	ICD-10-CM
K74.6	Other and unspecified cirrhosis of liver	Diagnosis	ICD-10-CM
R18	Ascites	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Orthopedic surgery of hip or knee			
OKRN	Replacement / Hip Muscle, Right	Procedure	ICD-10-PCS
OKRN07Z	Replacement of Right Hip Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OKRN0JZ	Replacement of Right Hip Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OKRN0KZ	Replacement of Right Hip Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OKRN47Z	Replacement of Right Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OKRN4JZ	Replacement of Right Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OKRN4KZ	Replacement of Right Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OKRP	Replacement / Hip Muscle, Left	Procedure	ICD-10-PCS
OKRP07Z	Replacement of Left Hip Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OKRP0JZ	Replacement of Left Hip Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OKRP0KZ	Replacement of Left Hip Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OKRP47Z	Replacement of Left Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OKRP4JZ	Replacement of Left Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OKRP4KZ	Replacement of Left Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRJ	Replacement / Hip Tendon, Right	Procedure	ICD-10-PCS
OLRJ07Z	Replacement of Right Hip Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRJ0JZ	Replacement of Right Hip Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OLRJ0KZ	Replacement of Right Hip Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRJ47Z	Replacement of Right Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRJ4JZ	Replacement of Right Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRJ4KZ	Replacement of Right Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRK	Replacement / Hip Tendon, Left	Procedure	ICD-10-PCS
OLRK07Z	Replacement of Left Hip Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRK0JZ	Replacement of Left Hip Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OLRK0KZ	Replacement of Left Hip Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRK47Z	Replacement of Left Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRK4JZ	Replacement of Left Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRK4KZ	Replacement of Left Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRQ	Replacement / Knee Tendon, Right	Procedure	ICD-10-PCS
OLRQ07Z	Replacement of Right Knee Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRQ0JZ	Replacement of Right Knee Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OLRQ0KZ	Replacement of Right Knee Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRQ47Z	Replacement of Right Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRQ4JZ	Replacement of Right Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRQ4KZ	Replacement of Right Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRR	Replacement / Knee Tendon, Left	Procedure	ICD-10-PCS
OLRR07Z	Replacement of Left Knee Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OLRR0JZ	Replacement of Left Knee Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OLRR0KZ	Replacement of Left Knee Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
OLRR47Z	Replacement of Left Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRR4JZ	Replacement of Left Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OLRR4KZ	Replacement of Left Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRL	Replacement / Hip Bursa and Ligament, Right	Procedure	ICD-10-PCS
OMRL07Z	Replacement of Right Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRLOJZ	Replacement of Right Hip Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OMRLOKZ	Replacement of Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRL47Z	Replacement of Right Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRL4JZ	Replacement of Right Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRL4KZ	Replacement of Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRM	Replacement / Hip Bursa and Ligament, Left	Procedure	ICD-10-PCS
OMRM07Z	Replacement of Left Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRM0JZ	Replacement of Left Hip Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OMRM0KZ	Replacement of Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRM47Z	Replacement of Left Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRM4JZ	Replacement of Left Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRM4KZ	Replacement of Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRN	Replacement / Knee Bursa and Ligament, Right	Procedure	ICD-10-PCS
OMRN07Z	Replacement of Right Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRN0JZ	Replacement of Right Knee Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OMRN0KZ	Replacement of Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRN47Z	Replacement of Right Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRN4JZ	Replacement of Right Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRN4KZ	Replacement of Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRP	Replacement / Knee Bursa and Ligament, Left	Procedure	ICD-10-PCS
OMRP07Z	Replacement of Left Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRP0JZ	Replacement of Left Knee Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OMRP0KZ	Replacement of Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OMRP47Z	Replacement of Left Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRP4JZ	Replacement of Left Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OMRP4KZ	Replacement of Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
OSR9	Replacement / Hip Joint, Right	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

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
OSR9069	Replacement of Right Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSR906A	Replacement of Right Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSR906Z	Replacement of Right Hip Joint with Oxidized Zirconium 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
OSR90EZ	Replacement of Right Hip Joint with Articulating Spacer, 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
OSRA	Replacement / Hip Joint, Acetabular Surface, Right	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
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

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
OSRB	Replacement / Hip Joint, Left	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
OSRB069	Replacement of Left Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRB06A	Replacement of Left Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRB06Z	Replacement of Left Hip Joint with Oxidized Zirconium 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
OSRB0EZ	Replacement of Left Hip Joint with Articulating Spacer, 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
OSRC	Replacement / Knee Joint, Right	Procedure	ICD-10-PCS
OSRC069	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC06A	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRC06Z	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC07Z	Replacement of Right Knee Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC0EZ	Replacement of Right Knee Joint with Articulating Spacer, 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
OSRC0L9	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC0LA	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRC0LZ	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC0M9	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC0MA	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
OSRC0MZ	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRC0N9	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRC0NA	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRC0NZ	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD	Replacement / Knee Joint, Left	Procedure	ICD-10-PCS
OSRD069	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD06A	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD06Z	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD07Z	Replacement of Left Knee Joint with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRDOEZ	Replacement of Left Knee Joint with Articulating Spacer, Open Approach	Procedure	ICD-10-PCS
OSRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRDOJA	Replacement of Left Knee Joint with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRDOJZ	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 Medial Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD0LA	Replacement of Left Knee Joint with Medial Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD0LZ	Replacement of Left Knee Joint with Medial Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD0M9	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD0MA	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD0MZ	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRD0N9	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Cemented, Open Approach	Procedure	ICD-10-PCS
OSRD0NA	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRD0NZ	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRE	Replacement / Hip Joint, Acetabular Surface, Left	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

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
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
OSRR	Replacement / Hip Joint, Femoral Surface, Right	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
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
OSRS	Replacement / Hip Joint, Femoral Surface, Left	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
OSRT	Replacement / Knee Joint, Femoral Surface, Right	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
OSRU	Replacement / Knee Joint, Femoral Surface, Left	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

Appendix H. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), and Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
OSRUOJA	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	Procedure	ICD-10-PCS
OSRUOJZ	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
OSRUOKZ	Replacement of Left Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
OSRV	Replacement / Knee Joint, Tibial Surface, Right	Procedure	ICD-10-PCS
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
OSRW	Replacement / Knee Joint, Tibial Surface, Left	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
27125	Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)	Procedure	CPT-4
27126	Partial Hip Replacement (hemiarthroplasty); Cup	Procedure	CPT-4
27127	Partial Hip Replacement (hemiarthroplasty); Cup With Acetabuloplasty	Procedure	CPT-4
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	Procedure	CPT-4
27134	Revision of total hip arthroplasty; both components, with or without autograft or allograft	Procedure	CPT-4
27137	Revision of total hip arthroplasty; acetabular component only, with or without autograft or allograft	Procedure	CPT-4
27138	Revision of total hip arthroplasty; femoral component only, with or without allograft	Procedure	CPT-4
27258	Open treatment of spontaneous hip dislocation (developmental, including congenital or pathological), replacement of femoral head in acetabulum (including tenotomy, etc);	Procedure	CPT-4
27259	Open treatment of spontaneous hip dislocation (developmental, including congenital or pathological), replacement of femoral head in acetabulum (including tenotomy, etc); with femoral shaft shortening	Procedure	CPT-4
L5702	Replacement, socket, hip disarticulation, including hip joint, molded to patient model	Procedure	HCPCS
XRRG	Replacement / Knee Joint, Right	Procedure	ICD-10-PCS
XRRG0L8	Replacement of Right Knee Joint with Synthetic Substitute, Lateral Meniscus, Open Approach, New Technology Group 8	Procedure	ICD-10-PCS
XRRG0M8	Replacement of Right Knee Joint with Synthetic Substitute, Medial Meniscus, Open Approach, New Technology Group 8	Procedure	ICD-10-PCS
XRRH	Replacement / Knee Joint, Left	Procedure	ICD-10-PCS
XRRH0L8	Replacement of Left Knee Joint with Synthetic Substitute, Lateral Meniscus, Open Approach, New Technology Group 8	Procedure	ICD-10-PCS
XRRH0M8	Replacement of Left Knee Joint with Synthetic Substitute, Medial Meniscus, Open Approach, New Technology Group 8	Procedure	ICD-10-PCS

Appendix I. Technical Specifications Used in this Request

The Cohort Identification and Descriptive Analysis (CIDA) tool 13.1.2 was executed to investigate utilization and uptake of Baricitinib, Ritlecitinib, and Upadacitinib.

Query period: 03/01/2022 - 01/31/2024
Coverage requirement: Medical and Drug coverage
Pre-index enrollment requirement: 183
Post-index requirement: 0
Enrollment gap: 45
Sex: F and M
Age groups: 0-17, 18-44, 45-64, and ≥ 65
Stratifications: Sex, Age group
Envelope macro: Reclassify encounters during inpatient stay as inpatient
Freeze data: N

Scenario	Group	Index Exposure	Cohort definition	Exposure									
				Incident exposure washout period	Exclude evidence of days supply if exposure washout includes dispensings	Treatment episode gap	Treatment episode extension	Care setting	Principal diagnosis position	Create Baseline Table?	Forced supply to attach to dispensings	Censor treatment episode at evidence of:	Average Filled Daily Dose Category
1	baric	Baricitinib for Alopecia	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183	Washout lookback period should search for evidence of days supply;	30	60	Any care setting	Any	Yes	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	First dispensing or procedure for a different JAK inhibitor, methotrexate, azathioprine, or cyclosporine or ritlecitinib; Disenrollment; Treatment discontinuation; Death; Data Partner End Date; Query End Date	Categorical (0-2 3-4 5-8 9+) and continuous summaries to be output
2	rite	Ritlecitinib for Alopecia	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183	Washout lookback period should search for evidence of days supply;	30	60	Any care setting	Any	Yes	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	First dispensing or procedure for a different JAK inhibitor, methotrexate, azathioprine, or cyclosporine or baricitinib; Disenrollment; Treatment discontinuation; Death; Data Partner End Date; Query End Date	Categorical (0-1 2-25 26-50 51+) and continuous summaries to be output
3	upada_cd	Upadacitinib for Crohn's disease	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183	Washout lookback period should search for evidence of days supply;	30	30	Any care setting	Any	Yes	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	First dispensing or procedure for non-Upadacitinib biologic or small molecular; Disenrollment; Treatment discontinuation; Death; Data Partner End Date; Query End Date	Categorical (0-15 16-30 31-45 46+) and continuous summaries to be output
4	upada_uc	Upadacitinib for Ulcerative Colitis	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183	Washout lookback period should search for evidence of days supply;	30	30	Any care setting	Any	Yes	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	First dispensing or procedure for non-Upadacitinib biologic or small molecular; Disenrollment; Treatment discontinuation; Death; Data Partner End Date; Query End Date	Categorical (0-15 16-30 31-45 46+) and continuous summaries to be output
5	upada_ib	Upadacitinib for Inflammatory Bowel Disease (IBD)	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183	Washout lookback period should search for evidence of days supply;	30	30	Any care setting	Any	Yes	Numeric specified; Indicates a forced supply that should be attached to the NDC to replace the exposure code's RxSup value	First dispensing or procedure for non-Upadacitinib biologic or small molecular; Disenrollment; Treatment discontinuation; Death; Data Partner End Date; Query End Date	Categorical (0-15 16-30 31-45 46+) and continuous summaries to be output

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

Appendix I. Technical Specifications Used in this Request

The Cohort Identification and Descriptive Analysis (CIDA) tool 13.1.2 was executed to investigate utilization and uptake of Baricitinib, Ritlecitinib, and Upadacitinib.

Inclusion/Exclusion Criteria									
Group	Inclusion/ Exclusion Group	Criteria	Care Setting ¹	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply if Inclusion/ Exclusion Evaluation Period Includes Dispensings	Number of Instances the Criteria Should be Found in Evaluation Period	
1	baric rite	Alopecia	Inclusion	AV, ED, or OA	N/A	-183	0	N/A	1
		AND							
2	upada_cd	Rheumatoid arthritis	Exclusion	Any care setting	Any	-183	0	N/A	1
		Ulcerative Colitis or Atopic Dermatitis or Psoriatic Arthritis or Rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies	Exclusion	Any care setting	Any	-183	0	N/A	1
		Discharge Date	Exclusion	IP	Any	-84	0	N/A	1
		AND							
2	upada_uc	Crohn's Disease	Inclusion	AV, ED, or OA	Any	-183	0	N/A	1
		Crohn's Disease or Atopic Dermatitis or Psoriatic Arthritis or Rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies	Exclusion	Any care setting	Any	-183	0	N/A	1
		Discharge Date	Exclusion	Any care setting	Any	-84	0	N/A	1
		AND							
		Ulcerative Colitis	Inclusion	AV, ED, or OA	Any	-183	0	N/A	1
2	upada_ib	Atopic Dermatitis or Psoriatic Arthritis or Rheumatoid arthritis or ankylosing spondylitis and other inflammatory spondyloarthropathies	Exclusion	Any care setting	Any	-183	0	N/A	1
		Discharge Date	Exclusion	Any care setting	Any	-84	0	N/A	1
		AND							
		IBD: Crohn's disease, ulcerative colitis, or indeterminate colitis	Inclusion	AV, ED, or OA	Any	-183	0	N/A	1

¹ Any care setting includes inpatient (IP), institutional stay (IS), ambulatory (AV), other ambulatory (OA), and emergency (ED) care settings.

N/A: Not Applicable

Appendix I. Technical Specifications Used in this Request

The Cohort Identification and Descriptive Analysis (CIDA) tool 13.1.2 was executed to investigate utilization and uptake of Baricitinib, Ritlecitinib, and Upadacitinib.

Covariates							
Covariate	Covariate Number	Care Setting/ Principal Diagnosis ¹	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply If Covariate Includes Dispensing	Number of Instances the Covariate Should be Found in Evaluation Period	Forced Supply to Attach to Dispensing
Acute Myocardial Infarction	1	IPP, IPS	-183	-1	N/A	1	N/A
Diabetes	2	IP*, IS* or	-183	-1	N/A	1	N/A
	3	AV*, ED*, OA*	-183	-1	N/A	2	N/A
	4	2 or 3	N/A	N/A	N/A	N/A	N/A
Hyperlipidemia	5	IP*, IS* or	-183	-1	N/A	1	N/A
	6	AV*, ED*, OA*	-183	-1	N/A	2	N/A
	7	5 or 6	N/A	N/A	N/A	N/A	N/A
Hypertension	8	IP*, IS* or	-183	-1	N/A	1	N/A
	9	AV*, ED*, OA*	-183	-1	N/A	2	N/A
	10	8 or 9	N/A	N/A	N/A	N/A	N/A
Depression	11	Any	-183	-1	N/A	1	N/A
Ischemic Heart Disease	12	Any	-183	-1	N/A	1	N/A
Stroke/Transient Ischemic Attack (TIA)	13	IP*	-183	-1	N/A	1	N/A
	14	AV*, ED*, OA*	-183	-1	N/A	2	N/A
	15	13 or 14	N/A	N/A	N/A	N/A	N/A
Asthma	16	Any	-183	-1	N/A	1	N/A
Chronic Kidney Disease	17	IP*, IS*, or	-183	-1	N/A	1	N/A
	18	AV*, ED* OA*	-183	-1	N/A	2	N/A
	19	17 or 18	N/A	N/A	N/A	N/A	N/A
COPD and Bronchiectasis	20	IP*, IS*, or	-183	-1	N/A	1	N/A
	21	AV*, ED* OA*	-183	-1	N/A	2	N/A
	22	20 or 21	N/A	N/A	N/A	N/A	N/A
Alopecia (capitis) totalis	23	Any	-183	-1	N/A	1	N/A
Alopecia universalis	24	Any	-183	-1	N/A	1	N/A
Noninfective enteritis and colitis	25	Any	-183	-1	N/A	1	N/A
Atopic dermatitis	26	Any	-183	-1	N/A	1	N/A
Psoriatic arthritis	27	Any	-183	-1	N/A	1	N/A
Lupus erythematosus	28	Any	-183	-1	N/A	1	N/A
Vitiligo	29	Any	-183	-1	N/A	1	N/A
Systemic connective tissue disorders	30	Any	-183	-1	N/A	1	N/A
Ankylosing spondylitis and other inflammatory spondyopathies	31	Any	-183	-1	N/A	1	N/A
DVT	32	Any	-183	-1	N/A	1	N/A
Pulmonary embolism	33	Any	-183	-1	N/A	1	N/A
Orthopedic surgery of hip or knee	34	Any	-183	-1	N/A	1	N/A
Cirrhosis or cirrhosis-related complication	35	Any	-183	-1	N/A	1	N/A

¹Caresetting/ Principal Diagnosis

*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.

*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.

*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 Care setting/PDX parameter.

N/A means not applicable

Appendix I. Technical Specifications Used in this Request

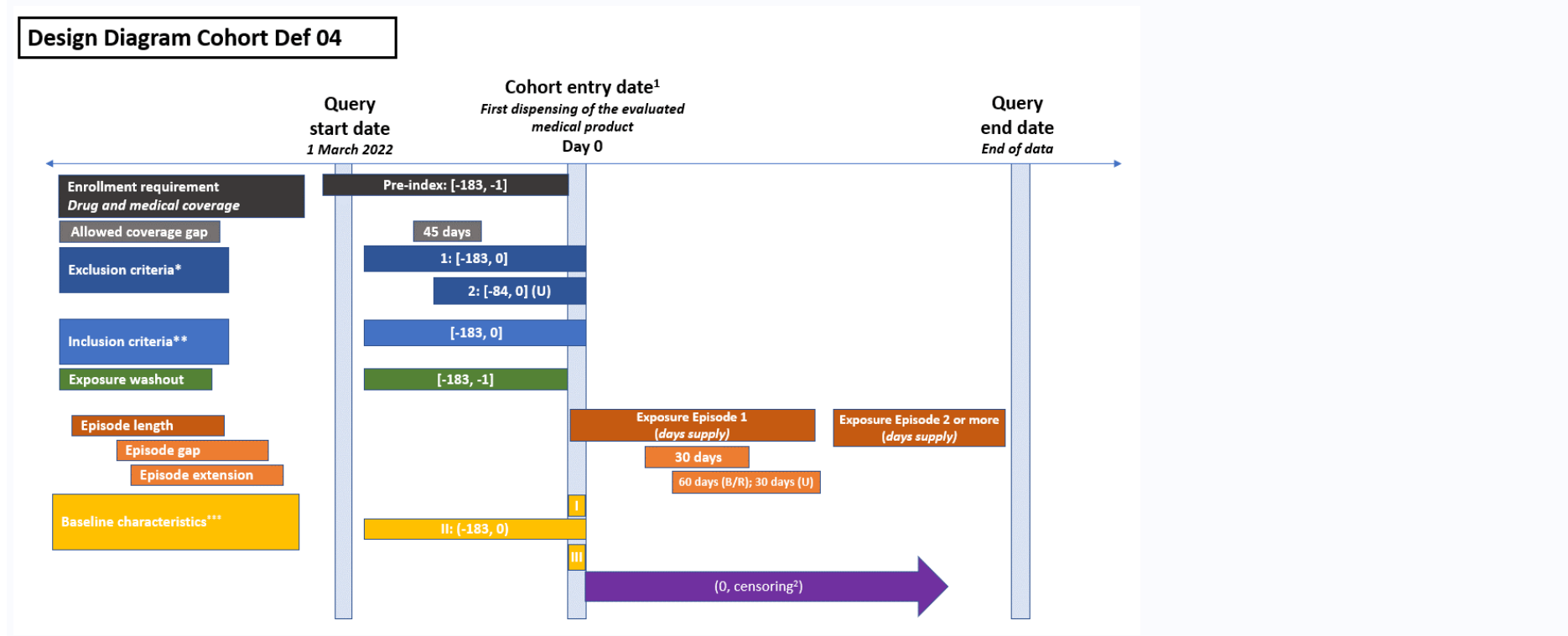
The Cohort Identification and Descriptive Analysis (CIDA) tool 13.1.2 was executed to investigate utilization and uptake of Baricitinib, Ritlecitinib, and Upadacitinib.

Covariates										
Covariate	Covariate Number	Care Setting	Principal Diagnosis Position	Code Category	Evaluation Period Start	Evaluation Period End	Exclude evidence of days supply if covariate includes dispensings	Number of Instances Covariate Should be Found in Evaluation Period	Minimum Days Supplied	Minimum Average Daily Dose
Baricitinib ≤ 2 mg	36	Any care setting	Any care setting	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	>0 mg
Baricitinib > 2 to 4 mg	37	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	2.0000000001 mg
Baricitinib > 4 to 8 mg	38	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	4.0000000001 mg
Baricitinib > 8 mg	39	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	8.0000000001 mg
Upadacitinib ≤ 15 mg	40	Any care setting	Any care setting	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	>0 mg
Upadacitinib > 15 to 30 mg	41	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	15.0000000001 mg
Upadacitinib > 30 to 45 mg	42	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	30.0000000001 mg
Upadacitinib > 45 mg	43	Any care setting	Only applicable for Inpatient and Institutional stays: *Any; *Principal; *Secondary; *Unknown	*Drug Code	0	0	Evaluation period should search for only evidence of a dispensing date	1	1	45.0000000001 mg

Appendix I. Technical Specifications Used in this Request

The Cohort Identification and Descriptive Analysis (CIDA) tool 13.1.2 was executed to investigate utilization and uptake of Baricitinib, Ritlecitinib, and Upadacitinib.					
Stockpiling					
Group	Same Day Dispensing Processing for Days Supplied	Same Day Dispensing Processing for Amount Supplied	Range of Allowable Days Supplied Values	Range of Allowable Amount Supplied Values	Overlap Percentage*
baric	Default: Adds all days supplied values for dispensings in the same stockgroup on the same day	Default: Adds all amount values for dispensings in the same stockgroup on the same day	LOW-180 days	LOW-180 pills	Default: No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward
rite	Default: Adds all days supplied values for dispensings in the same stockgroup on the same day	Default: Adds all amount values for dispensings in the same stockgroup on the same day	LOW-180 days	LOW-180 pills	Default: No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward
upada_cd, upada_uc, upada_ib	Default: Adds all days supplied values for dispensings in the same stockgroup on the same day	Default: Adds all amount values for dispensings in the same stockgroup on the same day	LOW-180 days	LOW-180 pills	Default: No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward
Utilization					
	Medical Utilization Evaluation Period Start	Medical Utilization Evaluation Period End	Medical Visit Care Settings	Drug Utilization Evaluation Period Start	Drug Utilization Evaluation Period End
Pre-Index	-183	0	*Inpatient hospital stay; *Non-acute institutional stay; *Emergency department encounter; *Ambulatory visit; *Other ambulatory visit; *Any care setting	-183	0

Appendix J. Design Diagram for this Request



¹Five scenarios defined based on initiation of baricitinib (B cohort) indicated for alopecia, ritlecitinib (R cohort) indicated for alopecia, or upadacitinib (U) indicated for Crohn’s disease (CD cohort), indicated for ulcerative colitis (UC cohort), and indicated for inflammatory bowel disease (IBD cohort); Cohort entry date = first dispensing date for qualifying evaluated medical product.

²Censoring: earliest of death, disenrollment, data partner data end date, query end date, or first dispensing or procedure for the selected medical products.

<p>*Exclusion Criteria</p> <p>Window 1: <i>Rheumatoid arthritis (RA) (B/R)</i></p> <p><i>Ulcerative colitis (CD cohort)</i></p> <p><i>Crohn’s disease (UC cohort)</i></p> <p><i>Atopic dermatitis, psoriatic arthritis, ankylosing spondylitis and other inflammatory spondyloarthropathies, and RA for all 3 upadacitinib cohorts (UC, CD, IBD)</i></p> <p>Window 2: <i>Discharge date for all 3 upadacitinib cohorts (UC, CD, IBD)</i></p>	<p>**Inclusion Criteria</p> <p><i>Alopecia areata (B/R)</i></p> <p><i>Crohn’s Disease (CD cohort)</i></p> <p><i>Ulcerative colitis (UC cohort)</i></p> <p><i>Inflammatory bowel disease (IBD cohort)</i></p>	<p>***Covariates:</p> <p>Window I: <i>Age, year, race, sex</i></p> <p>Window II: <i>Health characteristics, severity indicators, health service utilization intensity metrics</i></p> <p>Window III: <i>Average daily dose of the first dispensing (B/U)</i></p>
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