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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

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

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Overview for Request: cder_mpl1p_wp054

Request ID: cder_mpl1r_wp054_nsdv_v01

Request Description: In this report, we identified patients with Crohn's disease or ulcerative colitis in the Sentinel Distributed Database (SDD) and examined their uptake of ustekinumab, as well as rates of serious infection among patients using comparator treatments (infliximab, adalimumab, or vedolizumab). This is the first report of an ongoing plan to monitor uptake of ustekinumab until sufficient treated person-time accrues to conduct propensity-score-matched analyses of patients with either Crohn's disease or ulcerative colitis, comparing rates of serious infection among patients initiating ustekinumab to rates among patients initiating comparator treatments.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 10.1.0

Data Source: We distributed this request to seven Sentinel Data Partners (DP) on April 9, 2021. These seven Data Partners represent a subset of the SDD. Data from Medicare patients having both fee-for-service medical coverage and Part D drug coverage are included. The study period included data from October 1, 2016 through March 31, 2020 (most recent end date of available data). Please see Appendix A for a list of dates of available data for each DP.

Study Design: We identified individuals between 18 and 75+ years of age with incident use of ustekinumab or comparator treatments, and evaluated the occurrence of serious infections during comparator exposure episodes. We included separate cohorts for patients with Crohn's disease and ulcerative colitis. The cohort selection period for all scenarios was October 1, 2016 through latest available data, except for the scenario for ulcerative colitis patients with use of ustekinumab, which had a cohort selection period of November 1, 2019 through latest available data. For all scenarios we excluded individuals with a diagnosis of psoriasis, psoriatic arthritis, rheumatoid arthritis, ankylosing spondylitis, juvenile rheumatoid arthritis, or hidradenitis suppurativa. Among the cohorts with ulcerative colitis, we additionally excluded individuals with a diagnosis of Crohn's disease. Among the cohorts of patients using comparator treatments, we additionally excluded individuals with evidence of prior ustekinumab use. This is a Type 2 analysis in the Query Request Package (QRP) documentation.

Exposures of Interest: We defined the exposure of interest, ustekinumab, and the comparators of interest, infliximab, adalimumab, and vedolizumab, using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) procedure codes. We defined incident use as no prior dispensing or administration of ustekinumab or a comparator in the 183 days prior to the first qualifying dispensing (index). Incidence criteria were applied with respect to the index-defining drug only. Please see Appendix B for a list of nonproprietary and brand names of medical products and Appendix C for a list of procedure codes used to define exposures and comparators.

Outcomes of Interest: We defined the outcome of interest, serious infection (SI), as an inpatient diagnosis of any one of seven component conditions: acute meningitis, acute osteomyelitis, bacteremia, pneumonia, pyelonephritis, serious gastrointestinal infection, or skin/soft tissue infection, with no evidence of nosocomial origins of this infection. To avoid capture of nosocomial SIs, we required the SI to be preceded by a diagnosis of any serious or non-serious infection in the outpatient or emergency department setting or any outpatient antimicrobial dispensing in the seven days prior to and including inpatient admission. We captured rates of both the SI composite outcome as well as each of the individual SI components for patients with either Crohn's disease or ulcerative colitis, using one of the comparator treatments. We included a scenario for each disease cohort that assessed the SI composite outcome without the nosocomial infection requirement applied, as well as a scenario that assessed the SI composite with a 30-day blackout period applied. Please see Appendix D for a list of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes used to define serious infection in the inpatient setting and Appendix E for a list of ICD-10-CM diagnosis codes used to define serious and non-serious infection in the emergency department, ambulatory visit, or other ambulatory visit care setting. See Appendix F for a list of nonproprietary and brand names of medical products and Appendix G for a list of HCPCS, Current Procedural Terminology, Fourth Edition (CPT-4) and Second Edition (CPT Category II) codes used to define antimicrobials.

Cohort Eligibility Criteria: We required members to be enrolled in health plans with medical and drug coverage in the 183 days prior to their index date in order to be included in the cohort; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. We included the following age groups in the cohort: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+ years.

Overview for Request: cder_mpl1p_wp054

Inclusion Criteria: For entry into the Crohn's disease cohorts, we required a diagnosis code for Crohn's disease in the 183 days prior to and including the index-defining treatment exposure. For entry into the ulcerative colitis cohorts we required a diagnosis code for ulcerative colitis in the 183 days prior to and including the index-defining treatment exposure. Please see Appendix H for a list of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and ICD-10-CM diagnosis codes used to define the inclusion conditions.

Exclusion Criteria: We excluded from all cohorts individuals with a diagnosis of psoriasis, psoriatic arthritis, rheumatoid arthritis, ankylosing spondylitis, juvenile rheumatoid arthritis, or hidradenitis suppurativa in the 183 days prior to and including the index date. We excluded individuals with a diagnosis of Crohn's disease in the 183 days prior to and including the index date from the ulcerative colitis cohorts. For cohorts of patients using comparator treatments, we also excluded index exposure episodes if there was evidence of a ustekinumab dispensing or administration in the 183 days prior to the index date. Please see Appendix I for a list of ICD-9-CM and ICD-10-CM diagnosis codes and HCPCS procedure codes used to define exclusion criteria. Please see Appendix J for a list of nonproprietary and brand names of medical products used to define exclusion criteria.

Follow-up Time: We created exposure episodes based on a 56-days' supply applied to ustekinumab, infliximab, and vedolizumab procedure codes and a 28-days' supply applied to adalimumab procedure codes, and on the number of days of product supplied per dispensing in the outpatient pharmacy dispensing. For ustekinumab, infliximab, and vedolizumab, if a gap of less than 56 days occurred between episodes of a particular treatment, we bridged these episodes into a single treatment episode. For adalimumab, we bridged consecutive episodes with gaps of less than 28 days. We added 56 days to the end of each ustekinumab, infliximab, and vedolizumab episode and 28 days to the end of each adalimumab episode. These treatment episodes defined our outcome assessment risk window. Follow-up began on the day of the index dispensing and continued until the first occurrence of any of the following: 1) disenrollment; 2) death; 3) the end of the data provided by each Data Partner; 4) the end of the query period; 5) occurrence of the outcome; 6) use of a comparator drug (certolizumab pegol, golimumab, natalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab); or 7) use of ustekinumab (in the comparator cohorts only). Please see Appendix K for a list of nonproprietary and brand names of medical products and Appendix L for a list of HCPCS procedure codes used to define censoring criteria.

Baseline Characteristics: We assessed the following characteristics in the 183 days prior to and including the index date of ustekinumab or comparator dispensing: age, year, sex, and ulcerative colitis. We assessed use of the following treatments in the 183 days prior to the index date, as well as separately on the index date: infliximab, adalimumab, vedolizumab, certolizumab pegol, golimumab, natalizumab, and tofacitinib. Please see Appendix M for a list of ICD-10-CM diagnosis codes and HCPCS procedure codes and Appendix N for a list of nonproprietary and brand names of medical products used to define baseline characteristics.

Limitations: Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and baseline characteristics are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind. Additionally, death data in the SDD are incomplete. Therefore, data should be interpreted with these limitations 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***

Adjusted Dispensings - number of index date defining-dispensings (adjusted for same-day dispensings)

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 at Risk - start of follow-up until earliest of episode end date, health outcome of interest, requestor-defined censoring criteria, disenrollment, recorded death, follow-up end date, or data completeness date.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Raw Dispensings - number of index date defining-dispensings (not adjusted for same-day dispensings)

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 Baseline Table for Crohn's Disease with Ustekinumab in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Characteristic	Number	
Number of episodes	10,054	
Number of unique patients	10,054	
Demographics	Mean	Standard Deviation
Mean Age (Years)	48.7	14.9
Age (Years)	Number	Percent
18-24	844	8.4%
25-34	1,764	17.5%
35-44	1,978	19.7%
45-54	1,691	16.8%
55-64	1,445	14.4%
65-74	1,734	17.2%
75+	598	5.9%
Sex		
Female	5,730	57.0%
Male	4,324	43.0%
Race		
Unknown	5,574	55.4%
American Indian or Alaska Native	*****	*****
Asian	50	0.5%
Black or African American	429	4.3%
Native Hawaiian or Other Pacific Islander	*****	*****
White	3,984	39.6%
Hispanic Origin	103	1.0%
Year		
2016	323	3.2%
2017	2,714	27.0%
2018	3,123	31.1%
2019	3,604	35.8%
2020	290	2.9%
Recorded History of:¹	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ²	1.7	2.1
	Number	Percent
Ulcerative colitis	1,694	16.8%
Infliximab	1,334	13.3%
Adalimumab	2,206	21.9%
Vedolizumab	1,799	17.9%
Certolizumab Pegol	529	5.3%
Golimumab	39	0.4%
Natalizumab	*****	*****
Tofacitinib	32	0.3%
Any Comparator	5,735	57.0%

Table 1a. Aggregated Baseline Table for Crohn's Disease with Ustekinumab in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Dispensing or Administration on Index Date:	Number	Percent
Infliximab	*****	*****
Adalimumab	16	0.2%
Vedolizumab	*****	*****
Certolizumab Pegol	*****	*****
Golimumab	*****	*****
Natalizumab	0	0.0%
Tofacitinib	0	0.0%

¹Covariate history is defined by an evaluation period that takes place 183 days prior to the index date (the evaluation period for ulcerative colitis also includes the index date)

²The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

*****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 Baseline Table for Crohn's Disease with Comparators and Serious Infection (SI) Outcome Assessment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Characteristic	Number	
Number of episodes	30,232	
Number of unique patients	30,232	
Demographics	Mean	Standard Deviation
Mean Age (Years)	49	14.9
Age (Years)	Number	Percent
18-24	3,203	10.6%
25-34	5,189	17.2%
35-44	5,186	17.2%
45-54	4,642	15.4%
55-64	4,101	13.6%
65-74	5,721	18.9%
75+	2,190	7.2%
Sex		
Female	16,294	53.9%
Male	13,938	46.1%
Race		
Unknown	16,503	54.6%
American Indian or Alaska Native	65	0.2%
Asian	190	0.6%
Black or African American	1,292	4.3%
Native Hawaiian or Other Pacific Islander	12	0.0%
White	12,170	40.3%
Hispanic Origin	321	1.1%
Year		
2016	2,677	8.9%
2017	9,440	31.2%
2018	9,249	30.6%
2019	8,237	27.2%
2020	629	2.1%
Recorded History of: ¹	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ²	1.6	2.1
	Number	Percent
Ulcerative colitis	7,099	23.5%
Infliximab	1,812	6.0%
Adalimumab	1,614	5.3%
Vedolizumab	367	1.2%
Certolizumab Pegol	580	1.9%
Golimumab	73	0.2%
Natalizumab	*****	*****
Tofacitinib	26	0.1%
Any Comparator	4,408	14.6%

Table 1b. Aggregated Baseline Table for Crohn's Disease with Comparators and Serious Infection (SI) Outcome Assessment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Dispensing or Administration on Index Date:		
Infliximab	10,377	34.3%
Adalimumab	11,442	37.8%
Vedolizumab	8,438	27.9%
Certolizumab Pegol	*****	*****
Golimumab	0	0.0%
Natalizumab	0	0.0%
Tofacitinib	0	0.0%

¹Covariate history is defined by an evaluation period that takes place 183 days prior to the index date (the evaluation period for ulcerative colitis also includes the index date)

²The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

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Table 1c. Aggregated Baseline Table for Crohn's Disease with Comparators and Serious Infection (SI) Outcome Assessment After 30 Day Blackout Period in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

Characteristic	Number	
Number of episodes	28,213	
Number of unique patients	28,213	
Demographics	Mean	Standard Deviation
Mean Age (Years)	49.1	14.9
Age (Years)	Number	Percent
18-24	2,959	10.5%
25-34	4,788	17.0%
35-44	4,838	17.1%
45-54	4,326	15.3%
55-64	3,809	13.5%
65-74	5,420	19.2%
75+	2,073	7.3%
Sex		
Female	15,228	54.0%
Male	12,985	46.0%
Race		
Unknown	15,210	53.9%
American Indian or Alaska Native	62	0.2%
Asian	182	0.6%
Black or African American	1,232	4.4%
Native Hawaiian or Other Pacific Islander	12	0.0%
White	11,515	40.8%
Hispanic Origin	295	1.0%
Year		
2016	2,493	8.8%
2017	9,003	31.9%
2018	8,849	31.4%
2019	7,590	26.9%
2020	278	1.0%
Recorded History of:²	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ³	1.6	2.1
	Number	Percent
Ulcerative colitis	6,557	23.2%
Infliximab	1,750	6.2%
Adalimumab	1,198	4.2%
Vedolizumab	362	1.3%
Certolizumab Pegol	452	1.6%
Golimumab	49	0.2%
Natalizumab	*****	*****
Tofacitinib	20	0.1%
Any Comparator	3,772	13.4%

Table 1c. Aggregated Baseline Table for Crohn's Disease with Comparators and Serious Infection (SI) Outcome Assessment After 30 Day Blackout Period in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

Dispensing or Administration on Index Date:	Number	Percent
Infliximab	9,631	34.1%
Adalimumab	10,822	38.4%
Vedolizumab	7,770	27.5%
Certolizumab Pegol	*****	*****
Golimumab	0	0.0%
Natalizumab	0	0.0%
Tofacitinib	0	0.0%

¹Excludes patients censored or with SI occurrence during blackout period

²Covariate history is defined by an evaluation period that takes place 183 days prior to the index date (the evaluation period for ulcerative colitis also includes the index date)

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

*****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 Baseline Table for Ulcerative Colitis with Ustekinumab in the Sentinel Distributed Database (SDD) between November 1, 2019 and March 31, 2020

Characteristic	Number	
Number of episodes	232	
Number of unique patients	232	
Demographics	Mean	Standard Deviation
Mean Age (Years)	47.8	13.1
Age (Years)	Number	Percent
18-24	27	11.6%
25-34	33	14.2%
35-44	54	23.3%
45-54	40	17.2%
55-64	26	11.2%
65-74	37	15.9%
75+	15	6.5%
Sex		
Female	110	47.4%
Male	122	52.6%
Race		
Unknown	174	75.0%
American Indian or Alaska Native	0	0.0%
Asian	0	0.0%
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.0%
White	*****	*****
Hispanic Origin	*****	*****
Year		
2019	127	54.7%
2020	105	45.3%
Recorded History of:¹	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ²	1.3	1.9
	Number	Percent
Infliximab	38	16.4%
Adalimumab	36	15.5%
Vedolizumab	61	26.3%
Certolizumab Pegol	*****	*****
Golimumab	*****	*****
Natalizumab	0	0.0%
Tofacitinib	47	20.3%
Any Comparator	161	69.4%

Table 1d. Aggregated Baseline Table for Ulcerative Colitis with Ustekinumab in the Sentinel Distributed Database (SDD) between November 1, 2019 and March 31, 2020

Dispensing or Administration on Index Date:	Number	Percent
Infliximab	*****	*****
Adalimumab	*****	*****
Vedolizumab	*****	*****
Certolizumab Pegol	0	0.0%
Golimumab	0	0.0%
Natalizumab	0	0.0%
Tofacitinib	0	0.0%

¹Covariate history is defined by an evaluation period that takes place 183 days prior to the index date

²The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

*****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 Baseline Table for Ulcerative Colitis with Comparators and Serious Infection (SI) Outcome Assessment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Characteristic	Number	
Number of episodes	17,206	
Number of unique patients	17,206	
Demographics	Mean	Standard Deviation
Mean Age (Years)	50.8	13.9
Age (Years)	Number	Percent
18-24	1,578	9.2%
25-34	2,817	16.4%
35-44	2,894	16.8%
45-54	2,411	14.0%
55-64	2,166	12.6%
65-74	3,704	21.5%
75+	1,636	9.5%
Sex		
Female	8,251	48.0%
Male	8,955	52.0%
Race		
Unknown	10,126	58.9%
American Indian or Alaska Native	23	0.1%
Asian	164	1.0%
Black or African American	430	2.5%
Native Hawaiian or Other Pacific Islander	19	0.1%
White	6,444	37.5%
Hispanic Origin	263	1.5%
Year		
2016	1,272	7.4%
2017	5,078	29.5%
2018	5,236	30.4%
2019	5,166	30.0%
2020	454	2.6%
Recorded History of:¹	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ²	1.4	2.1
	Number	Percent
Infliximab	1,090	6.3%
Adalimumab	845	4.9%
Vedolizumab	308	1.8%
Certolizumab Pegol	27	0.2%
Golimumab	311	1.8%
Natalizumab	*****	*****
Tofacitinib	93	0.5%
Any Comparator	2,609	15.2%

Table 1e. Aggregated Baseline Table for Ulcerative Colitis with Comparators and Serious Infection (SI) Outcome Assessment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Dispensing or Administration on Index Date:	Number	Percent
Infliximab	5,361	31.2%
Adalimumab	5,576	32.4%
Vedolizumab	6,289	36.6%
Certolizumab Pegol	*****	*****
Golimumab	*****	*****
Natalizumab	0	0.0%
Tofacitinib	*****	*****

¹Covariate history is defined by an evaluation period that takes place 183 days prior to the index date

²The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

*****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 1f. Aggregated Baseline Table for Ulcerative Colitis with Comparators and Serious Infection (SI) Outcome Assessment After 30 Day Blackout Period in the Sentinel Distributed Database (SDD) between October 1, 2019 and March 31, 2020¹

Characteristic	Number	
Number of episodes	15,983	
Number of unique patients	15,983	
Demographics	Mean	Standard Deviation
Mean Age (Years)	50.8	13.9
Age (Years)	Number	Percent
18-24	1,475	9.2%
25-34	2,583	16.2%
35-44	2,665	16.7%
45-54	2,237	14.0%
55-64	2,009	12.6%
65-74	3,501	21.9%
75+	1,513	9.5%
Sex		
Female	7,673	48.0%
Male	8,310	52.0%
Race		
Unknown	9,341	58.4%
American Indian or Alaska Native	22	0.1%
Asian	152	1.0%
Black or African American	401	2.5%
Native Hawaiian or Other Pacific Islander	18	0.1%
White	6,049	37.8%
Hispanic Origin	250	1.6%
Year		
2016	1,188	7.4%
2017	4,845	30.3%
2018	5,021	31.4%
2019	4,728	29.6%
2020	201	1.3%
Recorded History of:²	Mean	Standard Deviation
Charlson/Elixhauser Combined Comorbidity Score ³	1.4	2.1
	Number	Percent
Infliximab	1,072	6.7%
Adalimumab	616	3.9%
Vedolizumab	309	1.9%
Certolizumab Pegol	20	0.1%
Golimumab	220	1.4%
Natalizumab	0	0.0%
Tofacitinib	55	0.3%
Any Comparator	2,235	14.0%

Table 1f. Aggregated Baseline Table for Ulcerative Colitis with Comparators and Serious Infection (SI) Outcome Assessment After 30 Day Blackout Period in the Sentinel Distributed Database (SDD) between October 1, 2019 and March 31, 2020¹

Dispensing or Administration on Index Date:	Number	Percent
Infliximab	4,977	31.1%
Adalimumab	5,263	32.9%
Vedolizumab	5,753	36.0%
Certolizumab Pegol	0	0.0%
Golimumab	0	0.0%
Natalizumab	0	0.0%
Tofacitinib	0	0.0%

¹Excludes patients censored or with SI occurrence during blackout period

²Covariate history is defined by an evaluation period that takes place 183 days prior to the index date (the evaluation period for ulcerative colitis

³The Charlson/Elixhauser Combined Comorbidity Score is calculated based on comorbidities observed during the 183 days prior to and including the index date

*****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 2. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, Overall

Exposure	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab	10,054	10,054	2,973,479	8,140.9	62,152	62,195
Crohn's Disease with Comparators and Serious Infection Composite Outcome	30,232	30,232	9,191,841	25,165.9	283,157	283,943
Crohn's Disease with Comparators and Serious Infection Composite - Without Nosocomial Infection Exclusion	30,232	30,232	9,054,534	24,790.0	281,331	282,102
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	28,213	28,213	8,289,473	22,695.3	277,664	278,386
Crohn's Disease with Comparators and Acute Meningitis	30,232	30,232	9,463,082	25,908.5	281,331	282,102
Crohn's Disease with Comparators and Acute Osteomyelitis	30,232	30,232	9,457,513	25,893.3	281,331	282,102
Crohn's Disease with Comparators and Acute Bacteremia	30,232	30,232	9,306,065	25,478.6	281,331	282,102
Crohn's Disease with Comparators and Acute Pneumonia	30,232	30,232	9,356,857	25,617.7	281,331	282,102
Crohn's Disease with Comparators and Pyelonephritis	30,232	30,232	9,456,933	25,891.7	281,331	282,102
Crohn's Disease with Comparators and Gastrointestinal Infection	30,232	30,232	9,374,574	25,666.2	281,331	282,102
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	30,232	30,232	9,371,953	25,659.0	281,331	282,102
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	17,206	17,206	5,119,651	14,016.8	162,050	162,456
Ulcerative Colitis with Comparators and Serious Infection Composite - Without Nosocomial Infection Exclusion	17,206	17,206	5,088,982	13,932.9	162,049	162,455
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	15,983	15,983	4,648,010	12,725.6	160,206	160,596

Table 2. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, Overall

Exposure	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Acute Meningitis						
	17,206	17,206	5,248,326	14,369.1	162,050	162,456
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
	17,206	17,206	5,246,701	14,364.7	162,050	162,456
Ulcerative Colitis with Comparators and Acute Bacteremia						
	17,206	17,206	5,188,930	14,206.5	162,050	162,456
Ulcerative Colitis with Comparators and Acute Pneumonia						
	17,206	17,206	5,203,723	14,247.0	162,050	162,456
Ulcerative Colitis with Comparators and Pyelonephritis						
	17,206	17,206	5,245,942	14,362.6	162,050	162,456
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
	17,206	17,206	5,213,984	14,275.1	162,050	162,456
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection						
	17,206	17,206	5,218,517	14,287.5	162,050	162,456
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
	232	232	8,393	23.0	417	417

Table 2. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, Overall

Exposure	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes¹
October 1, 2016 - March 31, 2020					
Crohn's Disease with Ustekinumab					
	2,963,954	144,526	-	-	-
Crohn's Disease with Comparators and Serious Infection Composite Outcome					
	12,238,274	463,994	2,472	1,805	59.7
Crohn's Disease with Comparators and Serious Infection Composite - Without Nosocomial Infection Exclusion					
	12,150,877	460,632	3,127	2,231	73.8
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout					
	12,079,327	457,459	1,925	1,472	52.2
Crohn's Disease with Comparators and Acute Meningitis					
	12,150,877	460,632	*****	*****	*****
Crohn's Disease with Comparators and Acute Osteomyelitis					
	12,150,877	460,632	49	38	1.3
Crohn's Disease with Comparators and Acute Bacteremia					
	12,150,877	460,632	1,128	902	29.8
Crohn's Disease with Comparators and Acute Pneumonia					
	12,150,877	460,632	695	567	18.8
Crohn's Disease with Comparators and Pyelonephritis					
	12,150,877	460,632	30	29	1.0
Crohn's Disease with Comparators and Gastrointestinal Infection					
	12,150,877	460,632	677	534	17.7
Crohn's Disease with Comparators and Skin or Soft Tissue Infection					
	12,150,877	460,632	664	552	18.3
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome					
	7,240,555	245,889	1,011	768	44.6
Ulcerative Colitis with Comparators and Serious Infection Composite - Without Nosocomial Infection Exclusion					
	7,240,499	245,888	1,285	974	56.6
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout					
	7,225,868	244,939	794	614	38.4

Table 2. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, Overall

Exposure	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes¹
Ulcerative Colitis with Comparators and Acute Meningitis					
	7,240,555	245,889	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Osteomyelitis					
	7,240,555	245,889	25	16	0.9
Ulcerative Colitis with Comparators and Acute Bacteremia					
	7,240,555	245,889	463	383	22.3
Ulcerative Colitis with Comparators and Acute Pneumonia					
	7,240,555	245,889	339	280	16.3
Ulcerative Colitis with Comparators and Pyelonephritis					
	7,240,555	245,889	14	14	0.8
Ulcerative Colitis with Comparators and Gastrointestinal Infection					
	7,240,555	245,889	255	207	12.0
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection					
	7,240,555	245,889	222	184	10.7
November 1, 2019 - March 31, 2020					
Ulcerative Colitis with Ustekinumab					
	12,808	580	-	-	-

¹Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

*****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 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
2016	323	323	151,229	414.0	3,110	3,114
2017	2,714	2,714	1,230,985	3,370.3	24,534	24,551
2018	3,123	3,123	1,035,976	2,836.3	21,034	21,046
2019	3,604	3,604	546,652	1,496.7	12,877	12,886
2020	290	290	8,637	23.6	597	598
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
2016	2,677	2,677	1,093,017	2,992.5	33,144	33,234
2017	9,440	9,440	3,751,131	10,270.0	112,562	112,791
2018	9,249	9,249	2,977,092	8,150.8	89,614	89,808
2019	8,237	8,237	1,349,120	3,693.7	46,336	46,561
2020	629	629	21,481	58.8	1,501	1,549
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
2016	2,677	2,677	1,075,799	2,945.4	32,861	32,951
2017	9,440	9,440	3,686,053	10,091.9	111,795	112,019
2018	9,249	9,249	2,939,461	8,047.8	89,072	89,266
2019	8,237	8,237	1,331,917	3,646.6	46,107	46,322
2020	629	629	21,304	58.3	1,496	1,544
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
2016	2,493	2,493	1,009,346	2,763.4	32,447	32,534
2017	9,003	9,003	3,463,958	9,483.8	110,998	111,212
2018	8,849	8,849	2,698,569	7,388.3	88,305	88,491
2019	7,590	7,590	1,109,969	3,038.9	45,000	45,205
2020	278	278	7,631	20.9	914	944
Crohn's Disease with Comparators and Acute Meningitis						
2016	2,677	2,677	1,138,120	3,116.0	32,861	32,951
2017	9,440	9,440	3,887,932	10,644.6	111,795	112,019
2018	9,249	9,249	3,044,586	8,335.6	89,072	89,266
2019	8,237	8,237	1,371,042	3,753.7	46,107	46,322
2020	629	629	21,402	58.6	1,496	1,544

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Acute Osteomyelitis						
2016	2,677	2,677	1,137,261	3,113.7	32,861	32,951
2017	9,440	9,440	3,884,232	10,634.4	111,795	112,019
2018	9,249	9,249	3,044,062	8,334.2	89,072	89,266
2019	8,237	8,237	1,370,556	3,752.4	46,107	46,322
2020	629	629	21,402	58.6	1,496	1,544
Crohn's Disease with Comparators and Acute Bacteremia						
2016	2,677	2,677	1,112,703	3,046.4	32,861	32,951
2017	9,440	9,440	3,814,656	10,444.0	111,795	112,019
2018	9,249	9,249	3,000,485	8,214.9	89,072	89,266
2019	8,237	8,237	1,356,845	3,714.8	46,107	46,322
2020	629	629	21,376	58.5	1,496	1,544
Crohn's Disease with Comparators and Acute Pneumonia						
2016	2,677	2,677	1,118,401	3,062.0	32,861	32,951
2017	9,440	9,440	3,834,358	10,497.9	111,795	112,019
2018	9,249	9,249	3,020,034	8,268.4	89,072	89,266
2019	8,237	8,237	1,362,662	3,730.8	46,107	46,322
2020	629	629	21,402	58.6	1,496	1,544
Crohn's Disease with Comparators and Pyelonephritis						
2016	2,677	2,677	1,136,306	3,111.0	32,861	32,951
2017	9,440	9,440	3,885,644	10,638.3	111,795	112,019
2018	9,249	9,249	3,042,599	8,330.2	89,072	89,266
2019	8,237	8,237	1,370,982	3,753.5	46,107	46,322
2020	629	629	21,402	58.6	1,496	1,544
Crohn's Disease with Comparators and Gastrointestinal Infection						
2016	2,677	2,677	1,126,360	3,083.8	32,861	32,951
2017	9,440	9,440	3,840,848	10,515.7	111,795	112,019
2018	9,249	9,249	3,022,690	8,275.7	89,072	89,266
2019	8,237	8,237	1,363,348	3,732.6	46,107	46,322
2020	629	629	21,328	58.4	1,496	1,544

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
2016	2,677	2,677	1,122,963	3,074.5	32,861	32,951
2017	9,440	9,440	3,849,238	10,538.6	111,795	112,019
2018	9,249	9,249	3,017,520	8,261.5	89,072	89,266
2019	8,237	8,237	1,360,880	3,725.9	46,107	46,322
2020	629	629	21,352	58.5	1,496	1,544
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
2016	1,272	1,272	554,779	1,518.9	16,732	16,775
2017	5,078	5,078	2,071,837	5,672.4	63,122	63,248
2018	5,236	5,236	1,655,257	4,531.8	51,531	51,630
2019	5,166	5,166	823,164	2,253.7	29,478	29,601
2020	454	454	14,614	40.0	1,187	1,202
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
2016	1,272	1,272	549,517	1,504.5	16,732	16,775
2017	5,078	5,078	2,058,995	5,637.2	63,122	63,248
2018	5,236	5,236	1,646,298	4,507.3	51,530	51,629
2019	5,166	5,166	819,588	2,243.9	29,478	29,601
2020	454	454	14,584	39.9	1,187	1,202
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
2016	1,188	1,188	519,397	1,422.0	16,627	16,666
2017	4,845	4,845	1,934,563	5,296.5	62,855	62,980
2018	5,021	5,021	1,510,374	4,135.2	51,206	51,304
2019	4,728	4,728	678,479	1,857.6	28,775	28,894
2020	201	201	5,197	14.2	743	752
Ulcerative Colitis with Comparators and Acute Meningitis						
2016	1,272	1,272	571,321	1,564.2	16,732	16,775
2017	5,078	5,078	2,132,351	5,838.1	63,122	63,248
2018	5,236	5,236	1,693,480	4,636.5	51,531	51,630
2019	5,166	5,166	836,516	2,290.3	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
2016	1,272	1,272	570,971	1,563.2	16,732	16,775
2017	5,078	5,078	2,131,499	5,835.7	63,122	63,248
2018	5,236	5,236	1,692,968	4,635.1	51,531	51,630
2019	5,166	5,166	836,605	2,290.5	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202
Ulcerative Colitis with Comparators and Acute Bacteremia						
2016	1,272	1,272	561,946	1,538.5	16,732	16,775
2017	5,078	5,078	2,108,502	5,772.8	63,122	63,248
2018	5,236	5,236	1,674,133	4,583.5	51,531	51,630
2019	5,166	5,166	829,735	2,271.7	29,478	29,601
2020	454	454	14,614	40.0	1,187	1,202
Ulcerative Colitis with Comparators and Acute Pneumonia						
2016	1,272	1,272	566,290	1,550.4	16,732	16,775
2017	5,078	5,078	2,110,579	5,778.5	63,122	63,248
2018	5,236	5,236	1,679,491	4,598.2	51,531	51,630
2019	5,166	5,166	832,705	2,279.8	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202
Ulcerative Colitis with Comparators and Pyelonephritis						
2016	1,272	1,272	571,442	1,564.5	16,732	16,775
2017	5,078	5,078	2,131,283	5,835.1	63,122	63,248
2018	5,236	5,236	1,692,761	4,634.5	51,531	51,630
2019	5,166	5,166	835,798	2,288.3	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
2016	1,272	1,272	567,872	1,554.7	16,732	16,775
2017	5,078	5,078	2,114,719	5,789.8	63,122	63,248
2018	5,236	5,236	1,683,527	4,609.2	51,531	51,630
2019	5,166	5,166	833,208	2,281.2	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection						
2016	1,272	1,272	567,743	1,554.4	16,732	16,775
2017	5,078	5,078	2,117,350	5,797.0	63,122	63,248
2018	5,236	5,236	1,685,719	4,615.2	51,531	51,630
2019	5,166	5,166	833,047	2,280.8	29,478	29,601
2020	454	454	14,658	40.1	1,187	1,202
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
2019	127	127	5,685	15.6	227	227
2020	105	105	2,708	7.4	190	190

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
October 1, 2016 - March 31, 2020					
Crohn's Disease with Ustekinumab					
2016	144,426	10,344	-	-	-
2017	1,178,795	56,830	-	-	-
2018	1,026,407	45,908	-	-	-
2019	598,499	30,780	-	-	-
2020	15,827	664	-	-	-
Crohn's Disease with Comparators and Serious Infection Composite Outcome					
2016	1,428,133	57,754	*****	*****	*****
2017	4,869,248	192,261	969	723	76.6
2018	3,968,465	143,891	761	536	58.0
2019	1,932,360	68,596	428	319	38.7
2020	40,068	1,492	*****	*****	*****
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	1,242	901	95.4
2018	3,943,200	142,939	949	658	71.1
2019	1,920,675	68,178	552	407	49.4
2020	39,577	1,483	*****	*****	*****
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout					
2016	1,404,172	56,247	*****	*****	*****
2017	4,816,469	190,159	794	619	68.8
2018	3,924,506	142,415	578	432	48.8
2019	1,902,747	67,544	290	231	30.4
2020	31,433	1,093	*****	*****	*****
Crohn's Disease with Comparators and Acute Meningitis					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	*****	*****	*****
2018	3,943,200	142,939	*****	*****	*****
2019	1,920,675	68,178	*****	*****	*****
2020	39,577	1,483	0	0	0.0

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Acute Osteomyelitis					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	24	19	2.0
2018	3,943,200	142,939	*****	*****	*****
2019	1,920,675	68,178	*****	*****	*****
2020	39,577	1,483	0	0	0.0
Crohn's Disease with Comparators and Acute Bacteremia					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	433	349	37.0
2018	3,943,200	142,939	358	280	30.3
2019	1,920,675	68,178	195	162	19.7
2020	39,577	1,483	*****	*****	*****
Crohn's Disease with Comparators and Acute Pneumonia					
2016	1,414,696	57,181	98	81	30.3
2017	4,832,729	190,850	302	242	25.6
2018	3,943,200	142,939	190	155	16.8
2019	1,920,675	68,178	105	89	10.8
2020	39,577	1,483	0	0	0.0
Crohn's Disease with Comparators and Pyelonephritis					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	13	13	1.4
2018	3,943,200	142,939	11	*****	*****
2019	1,920,675	68,178	*****	*****	*****
2020	39,577	1,483	0	0	0.0
Crohn's Disease with Comparators and Gastrointestinal Infection					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	255	211	22.4
2018	3,943,200	142,939	218	161	17.4
2019	1,920,675	68,178	126	96	11.7
2020	39,577	1,483	*****	*****	*****

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Skin or Soft Tissue Infection					
2016	1,414,696	57,181	*****	*****	*****
2017	4,832,729	190,850	256	219	23.2
2018	3,943,200	142,939	203	165	17.8
2019	1,920,675	68,178	123	98	11.9
2020	39,577	1,483	*****	*****	*****
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome					
2016	762,115	26,542	*****	*****	*****
2017	2,829,383	101,637	362	280	55.1
2018	2,347,778	76,829	327	244	46.6
2019	1,270,191	39,922	206	163	31.6
2020	31,088	958	*****	*****	*****
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
2016	762,115	26,542	*****	*****	*****
2017	2,829,383	101,637	452	349	68.7
2018	2,347,667	76,827	412	312	59.6
2019	1,270,246	39,923	268	208	40.3
2020	31,088	958	*****	*****	*****
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout					
2016	761,828	26,429	97	68	57.2
2017	2,829,068	101,578	292	230	47.5
2018	2,347,924	76,604	260	202	40.2
2019	1,261,313	39,594	145	114	24.1
2020	25,735	734	0	0	0.0
Ulcerative Colitis with Comparators and Acute Meningitis					
2016	762,115	26,542	*****	*****	*****
2017	2,829,383	101,637	*****	*****	*****
2018	2,347,778	76,829	*****	*****	*****
2019	1,270,191	39,922	*****	*****	*****
2020	31,088	958	0	0	0.0

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Ulcerative Colitis with Comparators and Acute Osteomyelitis					
2016	762,115	26,542	*****	*****	*****
2017	2,829,383	101,637	*****	*****	*****
2018	2,347,778	76,829	11	*****	*****
2019	1,270,191	39,922	0	0	0.0
2020	31,088	958	0	0	0.0
Ulcerative Colitis with Comparators and Acute Bacteremia					
2016	762,115	26,542	*****	*****	*****
2017	2,829,383	101,637	151	122	24.0
2018	2,347,778	76,829	164	126	24.1
2019	1,270,191	39,922	95	93	18.0
2020	31,088	958	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Pneumonia					
2016	762,115	26,542	35	31	24.4
2017	2,829,383	101,637	132	105	20.7
2018	2,347,778	76,829	103	88	16.8
2019	1,270,191	39,922	69	56	10.8
2020	31,088	958	0	0	0.0
Ulcerative Colitis with Comparators and Pyelonephritis					
2016	762,115	26,542	0	0	0.0
2017	2,829,383	101,637	*****	*****	*****
2018	2,347,778	76,829	*****	*****	*****
2019	1,270,191	39,922	*****	*****	*****
2020	31,088	958	0	0	0.0
Ulcerative Colitis with Comparators and Gastrointestinal Infection					
2016	762,115	26,542	28	21	16.5
2017	2,829,383	101,637	92	79	15.6
2018	2,347,778	76,829	82	65	12.4
2019	1,270,191	39,922	53	42	8.1
2020	31,088	958	0	0	0.0

Table 3. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Year

Year	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection					
2016	762,115	26,542	31	22	17.3
2017	2,829,383	101,637	75	65	12.8
2018	2,347,778	76,829	66	55	10.5
2019	1,270,191	39,922	50	42	8.1
2020	31,088	958	0	0	0.0
November 1, 2019 - March 31, 2020					
Ulcerative Colitis with Ustekinumab					
2019	8,125	425	-	-	-
2020	4,683	154	-	-	-

¹Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

****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 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
Female	5,730	5,730	1,693,581	4,636.8	35,299	35,328
Male	4,324	4,324	1,279,898	3,504.2	26,853	26,867
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
Female	16,294	16,294	4,885,953	13,377.0	149,095	149,512
Male	13,938	13,938	4,305,888	11,788.9	134,062	134,431
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
Female	16,294	16,294	4,807,372	13,161.9	148,005	148,414
Male	13,938	13,938	4,247,162	11,628.1	133,326	133,688
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
Female	15,228	15,228	4,399,296	12,044.6	146,082	146,463
Male	12,985	12,985	3,890,177	10,650.7	131,582	131,923
Crohn's Disease with Comparators and Acute Meningitis						
Female	16,294	16,294	5,034,760	13,784.4	148,005	148,414
Male	13,938	13,938	4,428,322	12,124.1	133,326	133,688
Crohn's Disease with Comparators and Acute Osteomyelitis						
Female	16,294	16,294	5,032,803	13,779.1	148,005	148,414
Male	13,938	13,938	4,424,710	12,114.2	133,326	133,688
Crohn's Disease with Comparators and Acute Bacteremia						
Female	16,294	16,294	4,950,458	13,553.6	148,005	148,414
Male	13,938	13,938	4,355,607	11,925.0	133,326	133,688
Crohn's Disease with Comparators and Acute Pneumonia						
Female	16,294	16,294	4,975,020	13,620.9	148,005	148,414
Male	13,938	13,938	4,381,837	11,996.8	133,326	133,688
Crohn's Disease with Comparators and Pyelonephritis						
Female	16,294	16,294	5,029,215	13,769.2	148,005	148,414
Male	13,938	13,938	4,427,718	12,122.4	133,326	133,688

Table 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Gastrointestinal Infection						
Female	16,294	16,294	4,986,376	13,652.0	148,005	148,414
Male	13,938	13,938	4,388,198	12,014.2	133,326	133,688
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
Female	16,294	16,294	4,986,221	13,651.5	148,005	148,414
Male	13,938	13,938	4,385,732	12,007.5	133,326	133,688
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
Female	8,251	8,251	2,460,793	6,737.3	77,021	77,216
Male	8,955	8,955	2,658,858	7,279.6	85,029	85,240
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
Female	8,251	8,251	2,446,321	6,697.7	77,021	77,216
Male	8,955	8,955	2,642,661	7,235.2	85,028	85,239
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
Female	7,673	7,673	2,234,991	6,119.1	76,234	76,424
Male	8,310	8,310	2,413,019	6,606.5	83,972	84,172
Ulcerative Colitis with Comparators and Acute Meningitis						
Female	8,251	8,251	2,507,707	6,865.7	77,021	77,216
Male	8,955	8,955	2,740,619	7,503.4	85,029	85,240
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
Female	8,251	8,251	2,507,758	6,865.9	77,021	77,216
Male	8,955	8,955	2,738,943	7,498.8	85,029	85,240
Ulcerative Colitis with Comparators and Acute Bacteremia						
Female	8,251	8,251	2,485,624	6,805.3	77,021	77,216
Male	8,955	8,955	2,703,306	7,401.2	85,029	85,240
Ulcerative Colitis with Comparators and Acute Pneumonia						
Female	8,251	8,251	2,492,492	6,824.1	77,021	77,216
Male	8,955	8,955	2,711,231	7,422.9	85,029	85,240
Ulcerative Colitis with Comparators and Pyelonephritis						
Female	8,251	8,251	2,506,430	6,862.2	77,021	77,216
Male	8,955	8,955	2,739,512	7,500.4	85,029	85,240

Table 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
Female	8,251	8,251	2,495,803	6,833.1	77,021	77,216
Male	8,955	8,955	2,718,181	7,442.0	85,029	85,240
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection						
Female	8,251	8,251	2,498,962	6,841.8	77,021	77,216
Male	8,955	8,955	2,719,555	7,445.7	85,029	85,240
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
Female	110	110	3,989	10.9	202	202
Male	122	122	4,404	12.1	215	215

Table 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
October 1, 2016 - March 31, 2020					
Crohn's Disease with Ustekinumab					
Female	1,682,979	83,865	-	-	-
Male	1,280,975	60,661	-	-	-
Crohn's Disease with Comparators and Serious Infection Composite Outcome					
Female	6,470,925	244,155	1,344	988	60.6
Male	5,767,349	219,839	1,128	817	58.6
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
Female	6,418,132	242,246	1,678	1,203	73.8
Male	5,732,745	218,387	1,449	1,028	73.8
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout					
Female	6,377,753	240,357	1,015	793	52.1
Male	5,701,574	217,102	910	679	52.3
Crohn's Disease with Comparators and Acute Meningitis					
Female	6,418,132	242,246	*****	*****	*****
Male	5,732,745	218,387	*****	*****	*****
Crohn's Disease with Comparators and Acute Osteomyelitis					
Female	6,418,132	242,246	19	15	0.9
Male	5,732,745	218,387	30	23	1.7
Crohn's Disease with Comparators and Acute Bacteremia					
Female	6,418,132	242,246	592	479	29.4
Male	5,732,745	218,387	536	423	30.3
Crohn's Disease with Comparators and Acute Pneumonia					
Female	6,418,132	242,246	371	304	18.7
Male	5,732,745	218,387	324	263	18.9
Crohn's Disease with Comparators and Pyelonephritis					
Female	6,418,132	242,246	*****	*****	*****
Male	5,732,745	218,387	*****	*****	*****

Table 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Gastrointestinal Infection					
Female	6,418,132	242,246	348	277	17.0
Male	5,732,745	218,387	329	257	18.4
Crohn's Disease with Comparators and Skin or Soft Tissue Infection					
Female	6,418,132	242,246	362	298	18.3
Male	5,732,745	218,387	302	254	18.2
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome					
Female	3,431,131	117,298	449	343	41.6
Male	3,809,424	128,591	562	425	47.5
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
Female	3,431,131	117,298	569	437	53.0
Male	3,809,368	128,590	716	537	60.0
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout					
Female	3,427,239	116,955	331	262	34.1
Male	3,798,629	127,983	463	352	42.4
Ulcerative Colitis with Comparators and Acute Meningitis					
Female	3,431,131	117,298	*****	*****	*****
Male	3,809,424	128,591	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Osteomyelitis					
Female	3,431,131	117,298	*****	*****	*****
Male	3,809,424	128,591	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Bacteremia					
Female	3,431,131	117,298	208	173	21.0
Male	3,809,424	128,591	255	210	23.5
Ulcerative Colitis with Comparators and Acute Pneumonia					
Female	3,431,131	117,298	152	131	15.9
Male	3,809,424	128,591	187	149	16.6
Ulcerative Colitis with Comparators and Pyelonephritis					
Female	3,431,131	117,298	*****	*****	*****
Male	3,809,424	128,591	*****	*****	*****

Table 4. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Sex

Sex	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Ulcerative Colitis with Comparators and Gastrointestinal Infection					
Female	3,431,131	117,298	121	98	11.9
Male	3,809,424	128,591	134	109	12.2
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection					
Female	3,431,131	117,298	81	68	8.2
Male	3,809,424	128,591	141	116	13.0
November 1, 2019 - March 31, 2020					
Ulcerative Colitis with Ustekinumab					
Female	6,132	353	-	-	-
Male	6,676	226	-	-	-

¹Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

*****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 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
18-24	844	844	226,916	621.3	5,031	5,033
25-34	1,764	1,764	507,048	1,388.2	11,180	11,189
35-44	1,978	1,978	588,841	1,612.2	12,512	12,522
45-54	1,691	1,691	522,081	1,429.4	11,070	11,079
55-64	1,445	1,445	435,228	1,191.6	9,167	9,175
65-74	1,734	1,734	527,724	1,444.8	10,004	10,009
75+	598	598	165,641	453.5	3,188	3,188
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
18-24	3,203	3,203	972,435	2,662.4	32,477	32,610
25-34	5,189	5,189	1,456,291	3,987.1	49,532	49,710
35-44	5,186	5,186	1,540,791	4,218.5	50,388	50,547
45-54	4,642	4,642	1,388,166	3,800.6	45,079	45,258
55-64	4,101	4,101	1,215,527	3,327.9	38,865	38,979
65-74	5,721	5,721	1,917,073	5,248.7	48,946	48,966
75+	2,190	2,190	701,558	1,920.8	17,870	17,873
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
18-24	3,203	3,203	953,706	2,611.1	32,315	32,444
25-34	5,189	5,189	1,429,241	3,913.0	49,030	49,204
35-44	5,186	5,186	1,516,935	4,153.1	50,064	50,221
45-54	4,642	4,642	1,363,440	3,732.9	44,609	44,784
55-64	4,101	4,101	1,196,553	3,276.0	38,584	38,697
65-74	5,721	5,721	1,900,979	5,204.6	48,877	48,897
75+	2,190	2,190	693,680	1,899.2	17,852	17,855
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
18-24	2,959	2,959	877,959	2,403.7	31,916	32,036
25-34	4,788	4,788	1,295,737	3,547.5	48,205	48,363
35-44	4,838	4,838	1,384,037	3,789.3	49,500	49,650
45-54	4,326	4,326	1,248,954	3,419.4	44,167	44,332

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
55-64	3,809	3,809	1,093,831	2,994.7	38,104	38,212
65-74	5,420	5,420	1,749,961	4,791.1	48,187	48,206
75+	2,073	2,073	638,994	1,749.5	17,585	17,587
Crohn's Disease with Comparators and Acute Meningitis						
18-24	3,203	3,203	981,320	2,686.7	32,315	32,444
25-34	5,189	5,189	1,474,083	4,035.8	49,030	49,204
35-44	5,186	5,186	1,565,823	4,287.0	50,064	50,221
45-54	4,642	4,642	1,420,267	3,888.5	44,609	44,784
55-64	4,101	4,101	1,253,753	3,432.6	38,584	38,697
65-74	5,721	5,721	2,012,142	5,508.9	48,877	48,897
75+	2,190	2,190	755,694	2,069.0	17,852	17,855
Crohn's Disease with Comparators and Acute Osteomyelitis						
18-24	3,203	3,203	981,481	2,687.1	32,315	32,444
25-34	5,189	5,189	1,473,643	4,034.6	49,030	49,204
35-44	5,186	5,186	1,565,297	4,285.5	50,064	50,221
45-54	4,642	4,642	1,419,655	3,886.8	44,609	44,784
55-64	4,101	4,101	1,252,085	3,428.0	38,584	38,697
65-74	5,721	5,721	2,011,575	5,507.4	48,877	48,897
75+	2,190	2,190	753,777	2,063.7	17,852	17,855
Crohn's Disease with Comparators and Acute Bacteremia						
18-24	3,203	3,203	976,614	2,673.8	32,315	32,444
25-34	5,189	5,189	1,460,088	3,997.5	49,030	49,204
35-44	5,186	5,186	1,550,236	4,244.3	50,064	50,221
45-54	4,642	4,642	1,397,126	3,825.1	44,609	44,784
55-64	4,101	4,101	1,231,017	3,370.3	38,584	38,697
65-74	5,721	5,721	1,961,112	5,369.2	48,877	48,897
75+	2,190	2,190	729,872	1,998.3	17,852	17,855

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Acute Pneumonia						
18-24	3,203	3,203	980,715	2,685.1	32,315	32,444
25-34	5,189	5,189	1,469,520	4,023.3	49,030	49,204
35-44	5,186	5,186	1,557,265	4,263.6	50,064	50,221
45-54	4,642	4,642	1,407,555	3,853.7	44,609	44,784
55-64	4,101	4,101	1,235,535	3,382.7	38,584	38,697
65-74	5,721	5,721	1,970,485	5,394.9	48,877	48,897
75+	2,190	2,190	735,782	2,014.5	17,852	17,855
Crohn's Disease with Comparators and Pyelonephritis						
18-24	3,203	3,203	981,482	2,687.2	32,315	32,444
25-34	5,189	5,189	1,473,952	4,035.5	49,030	49,204
35-44	5,186	5,186	1,564,626	4,283.7	50,064	50,221
45-54	4,642	4,642	1,420,203	3,888.3	44,609	44,784
55-64	4,101	4,101	1,252,651	3,429.6	38,584	38,697
65-74	5,721	5,721	2,009,546	5,501.8	48,877	48,897
75+	2,190	2,190	754,473	2,065.6	17,852	17,855
Crohn's Disease with Comparators and Gastrointestinal Infection						
18-24	3,203	3,203	972,071	2,661.4	32,315	32,444
25-34	5,189	5,189	1,459,858	3,996.9	49,030	49,204
35-44	5,186	5,186	1,555,762	4,259.4	50,064	50,221
45-54	4,642	4,642	1,407,160	3,852.6	44,609	44,784
55-64	4,101	4,101	1,244,021	3,405.9	38,584	38,697
65-74	5,721	5,721	1,992,528	5,455.2	48,877	48,897
75+	2,190	2,190	743,174	2,034.7	17,852	17,855
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
18-24	3,203	3,203	974,754	2,668.7	32,315	32,444
25-34	5,189	5,189	1,461,083	4,000.2	49,030	49,204
35-44	5,186	5,186	1,551,238	4,247.1	50,064	50,221
45-54	4,642	4,642	1,407,543	3,853.6	44,609	44,784
55-64	4,101	4,101	1,244,082	3,406.1	38,584	38,697

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
65-74	5,721	5,721	1,991,774	5,453.2	48,877	48,897
75+	2,190	2,190	741,479	2,030.1	17,852	17,855
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
18-24	1,578	1,578	443,874	1,215.3	15,340	15,393
25-34	2,817	2,817	769,250	2,106.1	27,415	27,518
35-44	2,894	2,894	873,670	2,392.0	30,587	30,678
45-54	2,411	2,411	740,302	2,026.8	25,356	25,446
55-64	2,166	2,166	635,705	1,740.5	20,901	20,957
65-74	3,704	3,704	1,181,959	3,236.0	30,249	30,257
75+	1,636	1,636	474,891	1,300.2	12,202	12,207
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
18-24	1,578	1,578	441,009	1,207.4	15,340	15,393
25-34	2,817	2,817	763,366	2,090.0	27,415	27,518
35-44	2,894	2,894	869,811	2,381.4	30,586	30,677
45-54	2,411	2,411	735,947	2,014.9	25,356	25,446
55-64	2,166	2,166	630,967	1,727.5	20,901	20,957
65-74	3,704	3,704	1,175,095	3,217.2	30,249	30,257
75+	1,636	1,636	472,787	1,294.4	12,202	12,207
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
18-24	1,475	1,475	400,304	1,096.0	15,208	15,258
25-34	2,583	2,583	692,916	1,897.1	27,097	27,195
35-44	2,665	2,665	795,084	2,176.8	30,229	30,317
45-54	2,237	2,237	673,957	1,845.2	25,088	25,175
55-64	2,009	2,009	575,875	1,576.7	20,643	20,697
65-74	3,501	3,501	1,079,633	2,955.9	29,951	29,959
75+	1,513	1,513	430,241	1,177.9	11,990	11,995

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Acute Meningitis						
18-24	1,578	1,578	449,762	1,231.4	15,340	15,393
25-34	2,817	2,817	777,646	2,129.1	27,415	27,518
35-44	2,894	2,894	885,786	2,425.1	30,587	30,678
45-54	2,411	2,411	749,746	2,052.7	25,356	25,446
55-64	2,166	2,166	648,057	1,774.3	20,901	20,957
65-74	3,704	3,704	1,230,602	3,369.2	30,249	30,257
75+	1,636	1,636	506,727	1,387.3	12,202	12,207
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
18-24	1,578	1,578	449,762	1,231.4	15,340	15,393
25-34	2,817	2,817	777,716	2,129.3	27,415	27,518
35-44	2,894	2,894	885,974	2,425.7	30,587	30,678
45-54	2,411	2,411	749,749	2,052.7	25,356	25,446
55-64	2,166	2,166	646,965	1,771.3	20,901	20,957
65-74	3,704	3,704	1,229,869	3,367.2	30,249	30,257
75+	1,636	1,636	506,666	1,387.2	12,202	12,207
Ulcerative Colitis with Comparators and Acute Bacteremia						
18-24	1,578	1,578	446,962	1,223.7	15,340	15,393
25-34	2,817	2,817	773,486	2,117.7	27,415	27,518
35-44	2,894	2,894	880,956	2,411.9	30,587	30,678
45-54	2,411	2,411	744,820	2,039.2	25,356	25,446
55-64	2,166	2,166	641,798	1,757.1	20,901	20,957
65-74	3,704	3,704	1,208,276	3,308.1	30,249	30,257
75+	1,636	1,636	492,632	1,348.8	12,202	12,207
Ulcerative Colitis with Comparators and Acute Pneumonia						
18-24	1,578	1,578	448,753	1,228.6	15,340	15,393
25-34	2,817	2,817	775,367	2,122.8	27,415	27,518
35-44	2,894	2,894	883,635	2,419.3	30,587	30,678
45-54	2,411	2,411	747,020	2,045.2	25,356	25,446
55-64	2,166	2,166	643,185	1,760.9	20,901	20,957

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
Ulcerative Colitis with Comparators and Acute Pneumonia						
65-74	3,704	3,704	1,211,178	3,316.0	30,249	30,257
75+	1,636	1,636	494,585	1,354.1	12,202	12,207
Ulcerative Colitis with Comparators and Pyelonephritis						
18-24	1,578	1,578	449,762	1,231.4	15,340	15,393
25-34	2,817	2,817	777,716	2,129.3	27,415	27,518
35-44	2,894	2,894	885,819	2,425.2	30,587	30,678
45-54	2,411	2,411	749,390	2,051.7	25,356	25,446
55-64	2,166	2,166	647,453	1,772.6	20,901	20,957
65-74	3,704	3,704	1,230,077	3,367.8	30,249	30,257
75+	1,636	1,636	505,725	1,384.6	12,202	12,207
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
18-24	1,578	1,578	447,801	1,226.0	15,340	15,393
25-34	2,817	2,817	775,595	2,123.5	27,415	27,518
35-44	2,894	2,894	879,460	2,407.8	30,587	30,678
45-54	2,411	2,411	748,052	2,048.1	25,356	25,446
55-64	2,166	2,166	645,617	1,767.6	20,901	20,957
65-74	3,704	3,704	1,218,699	3,336.6	30,249	30,257
75+	1,636	1,636	498,760	1,365.5	12,202	12,207
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection						
18-24	1,578	1,578	448,632	1,228.3	15,340	15,393
25-34	2,817	2,817	775,509	2,123.2	27,415	27,518
35-44	2,894	2,894	883,353	2,418.5	30,587	30,678
45-54	2,411	2,411	746,347	2,043.4	25,356	25,446
55-64	2,166	2,166	644,186	1,763.7	20,901	20,957
65-74	3,704	3,704	1,219,543	3,338.9	30,249	30,257
75+	1,636	1,636	500,947	1,371.5	12,202	12,207

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	New Users	New Episodes	Days at Risk	Years at Risk	Adjusted Dispensings	Raw Dispensings
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
18-24	27	27	1,026	2.8	51	51
25-34	33	33	1,074	2.9	64	64
35-44	54	54	2,047	5.6	106	106
45-54	40	40	1,349	3.7	73	73
55-64	26	26	1,058	2.9	57	57
65-74	37	37	1,304	3.6	50	50
75+	15	15	535	1.5	16	16

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
October 1, 2016 - March 31, 2020					
Crohn's Disease with Ustekinumab					
18-24	231,004	9,321	-	-	-
25-34	511,030	24,531	-	-	-
35-44	586,869	30,848	-	-	-
45-54	525,930	27,941	-	-	-
55-64	438,704	24,393	-	-	-
65-74	509,138	20,726	-	-	-
75+	161,279	6,766	-	-	-
Crohn's Disease with Comparators and Serious Infection Composite Outcome					
18-24	1,375,798	54,616	133	92	28.7
25-34	2,086,635	84,223	278	196	37.8
35-44	2,090,825	87,539	297	224	43.2
45-54	1,883,266	78,810	363	262	56.4
55-64	1,626,107	66,874	387	270	65.8
65-74	2,312,942	68,101	634	475	83.0
75+	862,701	23,831	380	286	130.6
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
18-24	1,368,315	54,268	208	146	45.6
25-34	2,062,894	83,353	376	258	49.7
35-44	2,074,697	86,897	407	288	55.5
45-54	1,861,416	77,917	462	326	70.2
55-64	1,612,067	66,439	490	329	80.2
65-74	2,309,349	67,966	739	548	95.8
75+	862,139	23,793	445	336	153.4
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout					
18-24	1,361,078	54,043	104	71	24.0
25-34	2,048,577	82,689	202	149	31.1
35-44	2,067,663	86,502	226	180	37.2
45-54	1,856,975	77,755	285	218	50.4

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout					
55-64	1,603,578	65,637	288	217	57.0
65-74	2,286,733	67,388	505	398	73.4
75+	854,723	23,445	315	239	115.3
Crohn's Disease with Comparators and Acute Meningitis					
18-24	1,368,315	54,268	*****	*****	*****
25-34	2,062,894	83,353	*****	*****	*****
35-44	2,074,697	86,897	0	0	0.0
45-54	1,861,416	77,917	*****	*****	*****
55-64	1,612,067	66,439	*****	*****	*****
65-74	2,309,349	67,966	*****	*****	*****
75+	862,139	23,793	0	0	0.0
Crohn's Disease with Comparators and Acute Osteomyelitis					
18-24	1,368,315	54,268	*****	*****	*****
25-34	2,062,894	83,353	*****	*****	*****
35-44	2,074,697	86,897	*****	*****	*****
45-54	1,861,416	77,917	*****	*****	*****
55-64	1,612,067	66,439	15	11	2.7
65-74	2,309,349	67,966	*****	*****	*****
75+	862,139	23,793	*****	*****	*****
Crohn's Disease with Comparators and Acute Bacteremia					
18-24	1,368,315	54,268	35	28	8.7
25-34	2,062,894	83,353	107	83	16.0
35-44	2,074,697	86,897	121	101	19.5
45-54	1,861,416	77,917	154	120	25.9
55-64	1,612,067	66,439	191	148	36.1
65-74	2,309,349	67,966	316	261	45.6
75+	862,139	23,793	204	161	73.5

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Acute Pneumonia					
18-24	1,368,315	54,268	*****	*****	*****
25-34	2,062,894	83,353	*****	*****	*****
35-44	2,074,697	86,897	58	50	9.6
45-54	1,861,416	77,917	99	72	15.5
55-64	1,612,067	66,439	126	99	24.1
65-74	2,309,349	67,966	237	194	33.9
75+	862,139	23,793	136	121	55.3
Crohn's Disease with Comparators and Pyelonephritis					
18-24	1,368,315	54,268	*****	*****	*****
25-34	2,062,894	83,353	*****	*****	*****
35-44	2,074,697	86,897	*****	*****	*****
45-54	1,861,416	77,917	*****	*****	*****
55-64	1,612,067	66,439	*****	*****	*****
65-74	2,309,349	67,966	*****	*****	*****
75+	862,139	23,793	*****	*****	*****
Crohn's Disease with Comparators and Gastrointestinal Infection					
18-24	1,368,315	54,268	68	53	16.5
25-34	2,062,894	83,353	111	85	16.4
35-44	2,074,697	86,897	90	72	13.9
45-54	1,861,416	77,917	103	76	16.4
55-64	1,612,067	66,439	90	66	16.1
65-74	2,309,349	67,966	135	117	20.5
75+	862,139	23,793	80	65	29.7
Crohn's Disease with Comparators and Skin or Soft Tissue Infection					
18-24	1,368,315	54,268	52	41	12.8
25-34	2,062,894	83,353	109	81	15.6
35-44	2,074,697	86,897	98	85	16.4
45-54	1,861,416	77,917	110	93	20.0
55-64	1,612,067	66,439	81	69	16.8

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Crohn's Disease with Comparators and Skin or Soft Tissue Infection					
65-74	2,309,349	67,966	132	111	19.4
75+	862,139	23,793	82	72	32.9
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome					
18-24	669,034	24,663	37	29	18.4
25-34	1,199,211	42,811	60	49	17.4
35-44	1,331,116	48,691	86	64	22.1
45-54	1,091,470	40,864	100	73	30.3
55-64	905,696	32,863	111	85	39.2
65-74	1,451,559	40,436	374	281	75.9
75+	592,469	15,561	243	187	114.3
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion					
18-24	669,034	24,663	65	49	31.1
25-34	1,199,211	42,811	106	87	30.9
35-44	1,331,005	48,689	118	85	29.4
45-54	1,091,525	40,865	138	100	41.5
55-64	905,696	32,863	152	115	53.1
65-74	1,451,559	40,436	434	326	88.0
75+	592,469	15,561	272	212	129.6
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout					
18-24	667,085	24,686	20	19	12.9
25-34	1,199,390	42,772	50	39	15.1
35-44	1,330,181	48,537	66	51	19.1
45-54	1,090,826	40,780	88	63	28.2
55-64	903,768	32,650	88	66	32.9
65-74	1,446,357	40,190	292	225	64.3
75+	588,261	15,323	190	151	99.8

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Ulcerative Colitis with Comparators and Acute Meningitis					
18-24	669,034	24,663	0	0	0.0
25-34	1,199,211	42,811	*****	*****	*****
35-44	1,331,116	48,691	*****	*****	*****
45-54	1,091,470	40,864	*****	*****	*****
55-64	905,696	32,863	0	0	0.0
65-74	1,451,559	40,436	*****	*****	*****
75+	592,469	15,561	0	0	0.0
Ulcerative Colitis with Comparators and Acute Osteomyelitis					
18-24	669,034	24,663	0	0	0.0
25-34	1,199,211	42,811	0	0	0.0
35-44	1,331,116	48,691	0	0	0.0
45-54	1,091,470	40,864	*****	*****	*****
55-64	905,696	32,863	*****	*****	*****
65-74	1,451,559	40,436	14	*****	*****
75+	592,469	15,561	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Bacteremia					
18-24	669,034	24,663	23	21	13.3
25-34	1,199,211	42,811	23	21	7.5
35-44	1,331,116	48,691	41	30	10.4
45-54	1,091,470	40,864	48	39	16.2
55-64	905,696	32,863	43	38	17.5
65-74	1,451,559	40,436	172	143	38.6
75+	592,469	15,561	113	91	55.6
Ulcerative Colitis with Comparators and Acute Pneumonia					
18-24	669,034	24,663	*****	*****	*****
25-34	1,199,211	42,811	*****	*****	*****
35-44	1,331,116	48,691	18	15	5.2
45-54	1,091,470	40,864	24	21	8.7
55-64	905,696	32,863	39	33	15.2

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
Ulcerative Colitis with Comparators and Acute Pneumonia					
65-74	1,451,559	40,436	138	112	30.2
75+	592,469	15,561	95	79	48.3
Ulcerative Colitis with Comparators and Pyelonephritis					
18-24	669,034	24,663	0	0	0.0
25-34	1,199,211	42,811	0	0	0.0
35-44	1,331,116	48,691	*****	*****	*****
45-54	1,091,470	40,864	*****	*****	*****
55-64	905,696	32,863	*****	*****	*****
65-74	1,451,559	40,436	*****	*****	*****
75+	592,469	15,561	*****	*****	*****
Ulcerative Colitis with Comparators and Gastrointestinal Infection					
18-24	669,034	24,663	*****	*****	*****
25-34	1,199,211	42,811	*****	*****	*****
35-44	1,331,116	48,691	29	23	7.9
45-54	1,091,470	40,864	25	19	7.9
55-64	905,696	32,863	26	21	9.7
65-74	1,451,559	40,436	98	80	21.6
75+	592,469	15,561	53	44	26.9
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infection					
18-24	669,034	24,663	*****	*****	*****
25-34	1,199,211	42,811	*****	*****	*****
35-44	1,331,116	48,691	18	17	5.9
45-54	1,091,470	40,864	26	21	8.7
55-64	905,696	32,863	30	25	11.5
65-74	1,451,559	40,436	84	64	17.3
75+	592,469	15,561	43	41	25.1

Table 5. Summary of First Valid Ustekinumab or Comparator Treatment Exposure Episode in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020, by Age Group

Age Group (Years)	Days Supplied	Amount Supplied	All Events	New Episodes with an Event	New Episodes with an Event per 1,000 New Episodes ¹
November 1, 2019 - March 31, 2020					
Ulcerative Colitis with Ustekinumab					
18-24	1,501	*****	-	-	-
25-34	1,847	239	-	-	-
35-44	3,215	179	-	-	-
45-54	2,192	59	-	-	-
55-64	1,881	35	-	-	-
65-74	1,605	29	-	-	-
75+	567	*****	-	-	-

¹Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

*****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 6. Summary of Follow-Up for Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Total Number of Episodes	Number of Episodes by Length of Follow-Up Time					
		0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020							
Crohn's Disease with Ustekinumab	10,054	2,348	23.4%	2,409	24.0%	1,207	12.0%
Crohn's Disease with Comparators and Serious Infection Composite Outcome	30,232	6,737	22.3%	6,930	22.9%	4,056	13.4%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	30,232	7,029	23.3%	6,893	22.8%	4,003	13.2%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	28,213	7,753	27.5%	5,473	19.4%	3,603	12.8%
Crohn's Disease with Comparators and Acute Meningitis	30,232	6,270	20.7%	6,992	23.1%	4,075	13.5%
Crohn's Disease with Comparators and Acute Osteomyelitis	30,232	6,278	20.8%	6,992	23.1%	4,071	13.5%
Crohn's Disease with Comparators and Acute Bacteremia	30,232	6,569	21.7%	6,937	22.9%	4,043	13.4%
Crohn's Disease with Comparators and Acute Pneumonia	30,232	6,437	21.3%	6,986	23.1%	4,054	13.4%
Crohn's Disease with Comparators and Pyelonephritis	30,232	6,278	20.8%	6,996	23.1%	4,072	13.5%
Crohn's Disease with Comparators and Gastrointestinal Infection	30,232	6,442	21.3%	6,958	23.0%	4,066	13.4%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	30,232	6,456	21.4%	6,974	23.1%	4,042	13.4%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	17,206	3,898	22.7%	4,158	24.2%	2,358	13.7%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	17,206	3,970	23.1%	4,135	24.0%	2,347	13.6%

Table 6. Summary of Follow-Up for Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Total Number of Episodes	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
15,983	4,404	27.6%	3,253	20.4%	2,070	13.0%
Ulcerative Colitis with Comparators and Acute Meningitis						
17,206	3,629	21.1%	4,225	24.6%	2,384	13.9%
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
17,206	3,630	21.1%	4,226	24.6%	2,382	13.8%
Ulcerative Colitis with Comparators and Acute Bacteremia						
17,206	3,752	21.8%	4,194	24.4%	2,372	13.8%
Ulcerative Colitis with Comparators and Acute Pneumonia						
17,206	3,730	21.7%	4,194	24.4%	2,368	13.8%
Ulcerative Colitis with Comparators and Pyelonephritis						
17,206	3,633	21.1%	4,229	24.6%	2,381	13.8%
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
17,206	3,701	21.5%	4,203	24.4%	2,375	13.8%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections						
17,206	3,693	21.5%	4,209	24.5%	2,382	13.8%
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
232	221	95.3%	11	4.7%	0	0.0%

Table 6. Summary of Follow-Up for Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode							
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation	
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes									
October 1, 2016 - March 31, 2020												
Crohn's Disease with Ustekinumab												
	1,015	10.1%	3,075	30.6%	1	101	199	436	1,272	296	275	
Crohn's Disease with Comparators and Serious Infection Composite Outcome												
	3,150	10.4%	9,359	31.0%	1	105	210	435	1,275	304	274	
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion												
	3,110	10.3%	9,197	30.4%	1	99	207	429	1,275	300	273	
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout												
	2,886	10.2%	8,498	30.1%	1	82	198	426	1,245	294	271	
Crohn's Disease with Comparators and Acute Meningitis												
	3,196	10.6%	9,699	32.1%	1	112	217	448	1,275	313	277	
Crohn's Disease with Comparators and Acute Osteomyelitis												
	3,201	10.6%	9,690	32.1%	1	112	217	448	1,275	313	277	
Crohn's Disease with Comparators and Acute Bacteremia												
	3,173	10.5%	9,510	31.5%	1	107	212	441	1,275	308	275	
Crohn's Disease with Comparators and Acute Pneumonia												
	3,171	10.5%	9,584	31.7%	1	111	214	443	1,275	310	276	
Crohn's Disease with Comparators and Pyelonephritis												
	3,194	10.6%	9,692	32.1%	1	112	217	448	1,275	313	277	
Crohn's Disease with Comparators and Gastrointestinal Infection												
	3,186	10.5%	9,580	31.7%	1	110	214	443	1,275	310	276	
Crohn's Disease with Comparators and Skin or Soft Tissue Infection												
	3,178	10.5%	9,582	31.7%	1	110	213	444	1,275	310	276	
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome												
	1,711	9.9%	5,081	29.5%	1	102	200	422	1,274	298	275	
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion												
	1,707	9.9%	5,047	29.3%	1	100	198	420	1,274	296	274	

Table 6. Summary of Follow-Up for Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	1,588	9.9%	4,668	29.2%	1	82	194	418	1,244	291	273
Ulcerative Colitis with Comparators and Acute Meningitis	1,730	10.1%	5,238	30.4%	1	112	208	434	1,274	305	277
Ulcerative Colitis with Comparators and Acute Osteomyelitis	1,731	10.1%	5,237	30.4%	1	112	208	434	1,274	305	277
Ulcerative Colitis with Comparators and Acute Bacteremia	1,720	10.0%	5,168	30.0%	1	107	204	428	1,274	302	276
Ulcerative Colitis with Comparators and Acute Pneumonia	1,732	10.1%	5,182	30.1%	1	108	205	430	1,274	302	276
Ulcerative Colitis with Comparators and Pyelonephritis	1,728	10.0%	5,235	30.4%	1	112	208	434	1,274	305	277
Ulcerative Colitis with Comparators and Gastrointestinal Infection	1,730	10.1%	5,197	30.2%	1	109	206	431	1,274	303	276
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	1,724	10.0%	5,198	30.2%	1	109	206	431	1,274	303	277
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	0	0.0%	0	0.0%	1	15	29	50	146	36	29

Table 7. Summary of Reasons for Censoring Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Total Number of Episodes	Disenrollment		Death		Data Partner End Date	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020							
Crohn's Disease with Ustekinumab	10,054	5,274	52.5%	51	0.5%	4,515	44.9%
Crohn's Disease with Comparators and Serious Infection Composite Outcome	30,232	13,524	44.7%	160	0.5%	10,757	35.6%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	30,232	13,335	44.1%	137	0.5%	10,594	35.0%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	28,213	12,512	44.3%	137	0.5%	10,081	35.7%
Crohn's Disease with Comparators and Acute Meningitis	30,232	14,054	46.5%	297	1.0%	11,181	37.0%
Crohn's Disease with Comparators and Acute Osteomyelitis	30,232	14,051	46.5%	297	1.0%	11,177	37.0%
Crohn's Disease with Comparators and Acute Bacteremia	30,232	13,790	45.6%	187	0.6%	10,949	36.2%
Crohn's Disease with Comparators and Acute Pneumonia	30,232	13,846	45.8%	227	0.8%	11,007	36.4%
Crohn's Disease with Comparators and Pyelonephritis	30,232	14,045	46.5%	298	1.0%	11,173	37.0%
Crohn's Disease with Comparators and Gastrointestinal Infection	30,232	13,915	46.0%	260	0.9%	11,063	36.6%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	30,232	13,881	45.9%	276	0.9%	11,044	36.5%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	17,206	7,661	44.5%	94	0.5%	6,466	37.6%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	17,206	7,606	44.2%	82	0.5%	6,426	37.3%

Table 7. Summary of Reasons for Censoring Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Total Number of Episodes	Disenrollment		Death		Data Partner End Date	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	15,983	7,102	44.4%	78	0.5%	6,040	37.8%
Ulcerative Colitis with Comparators and Acute Meningitis	17,206	7,878	45.8%	178	1.0%	6,659	38.7%
Ulcerative Colitis with Comparators and Acute Osteomyelitis	17,206	7,878	45.8%	177	1.0%	6,657	38.7%
Ulcerative Colitis with Comparators and Acute Bacteremia	17,206	7,783	45.2%	116	0.7%	6,570	38.2%
Ulcerative Colitis with Comparators and Acute Pneumonia	17,206	7,800	45.3%	131	0.8%	6,590	38.3%
Ulcerative Colitis with Comparators and Pyelonephritis	17,206	7,876	45.8%	178	1.0%	6,656	38.7%
Ulcerative Colitis with Comparators and Gastrointestinal Infection	17,206	7,823	45.5%	167	1.0%	6,610	38.4%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	17,206	7,828	45.5%	162	0.9%	6,613	38.4%
November 1, 2019 - March 31, 2020							
Ulcerative Colitis with Ustekinumab	232	128	55.2%	0	0.0%	185	79.7%

Table 7. Summary of Reasons for Censoring Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Query End Date		Episode End Date		Additional Criteria ²		Event	
	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
October 1, 2016 - March 31, 2020								
Crohn's Disease with Ustekinumab	0	0.0%	2,406	23.9%	1,341	13.3%	0	0.0%
Crohn's Disease with Comparators and Serious Infection Composite Outcome	0	0.0%	8,471	28.0%	3,528	11.7%	1,805	6.0%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	0	0.0%	8,084	26.7%	3,764	12.5%	2,231	7.4%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	0	0.0%	8,335	29.5%	3,213	11.4%	1,472	5.2%
Crohn's Disease with Comparators and Acute Meningitis	0	0.0%	9,106	30.1%	4,002	13.2%	*****	*****
Crohn's Disease with Comparators and Acute Osteomyelitis	0	0.0%	9,081	30.0%	4,001	13.2%	38	0.1%
Crohn's Disease with Comparators and Acute Bacteremia	0	0.0%	8,706	28.8%	3,915	12.9%	902	3.0%
Crohn's Disease with Comparators and Acute Pneumonia	0	0.0%	8,878	29.4%	3,960	13.1%	567	1.9%
Crohn's Disease with Comparators and Pyelonephritis	0	0.0%	9,095	30.1%	4,001	13.2%	29	0.1%
Crohn's Disease with Comparators and Gastrointestinal Infection	0	0.0%	8,844	29.3%	3,941	13.0%	534	1.8%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	0	0.0%	8,837	29.2%	3,943	13.0%	552	1.8%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	0	0.0%	4,100	23.8%	2,786	16.2%	768	4.5%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	0	0.0%	4,000	23.2%	2,750	16.0%	974	5.7%

Table 7. Summary of Reasons for Censoring Users of Ustekinumab or Comparators in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Query End Date		Episode End Date		Additional Criteria ²		Event	
	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
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	0	0.0%	4,123	25.8%	2,379	14.9%	614	3.8%
Ulcerative Colitis with Comparators and Acute Meningitis	0	0.0%	4,450	25.9%	2,875	16.7%	*****	*****
Ulcerative Colitis with Comparators and Acute Osteomyelitis	0	0.0%	4,443	25.8%	2,875	16.7%	16	0.1%
Ulcerative Colitis with Comparators and Acute Bacteremia	0	0.0%	4,277	24.9%	2,837	16.5%	383	2.2%
Ulcerative Colitis with Comparators and Acute Pneumonia	0	0.0%	4,337	25.2%	2,845	16.5%	280	1.6%
Ulcerative Colitis with Comparators and Pyelonephritis	0	0.0%	4,448	25.9%	2,872	16.7%	14	0.1%
Ulcerative Colitis with Comparators and Gastrointestinal Infection	0	0.0%	4,347	25.3%	2,854	16.6%	207	1.2%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	0	0.0%	4,368	25.4%	2,851	16.6%	184	1.1%
November 1, 2019 - March 31, 2020								
Ulcerative Colitis with Ustekinumab	0	0.0%	0	0.0%	35	15.1%	0	0.0%

¹An episode may be censored due to more than one reason if they occur on the same date. Therefore, the sum of the reasons for censoring may be greater than the total number of episodes.

²Reflects censoring at the dispensing of any treatment of interest other than the index treatment. Treatments of interest include certolizumab pegol, golimumab, natalizumab, tofacitinib, infliximab, adalimumab, vedolizumab, and ustekinumab.

*****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 8. Summary of Follow-up Time for Users Censored Due to Disenrollment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time						
	Total Number of Episodes Due to Disenrollment	0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020							
Crohn's Disease with Ustekinumab	5,274	1,132	21.5%	917	17.4%	650	12.3%
Crohn's Disease with Comparators and Serious Infection Composite Outcome	13,524	2,981	22.0%	2,288	16.9%	1,610	11.9%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	13,335	2,959	22.2%	2,268	17.0%	1,585	11.9%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	12,512	2,858	22.8%	2,026	16.2%	1,457	11.6%
Crohn's Disease with Comparators and Acute Meningitis	14,054	3,011	21.4%	2,342	16.7%	1,666	11.9%
Crohn's Disease with Comparators and Acute Osteomyelitis	14,051	3,011	21.4%	2,342	16.7%	1,664	11.8%
Crohn's Disease with Comparators and Acute Bacteremia	13,790	2,997	21.7%	2,316	16.8%	1,635	11.9%
Crohn's Disease with Comparators and Acute Pneumonia	13,846	3,001	21.7%	2,329	16.8%	1,643	11.9%
Crohn's Disease with Comparators and Pyelonephritis	14,045	3,010	21.4%	2,340	16.7%	1,666	11.9%
Crohn's Disease with Comparators and Gastrointestinal Infection	13,915	2,995	21.5%	2,326	16.7%	1,654	11.9%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	13,881	2,997	21.6%	2,316	16.7%	1,643	11.8%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	7,661	1,709	22.3%	1,387	18.1%	911	11.9%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	7,606	1,701	22.4%	1,376	18.1%	906	11.9%

Table 8. Summary of Follow-up Time for Users Censored Due to Disenrollment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Total Number of Episodes Due to Disenrollment	Number of Episodes by Length of Follow-Up Time					
		0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout							
	7,102	1,637	23.0%	1,193	16.8%	846	11.9%
Ulcerative Colitis with Comparators and Acute Meningitis							
	7,878	1,723	21.9%	1,420	18.0%	933	11.8%
Ulcerative Colitis with Comparators and Acute Osteomyelitis							
	7,878	1,723	21.9%	1,420	18.0%	934	11.9%
Ulcerative Colitis with Comparators and Acute Bacteremia							
	7,783	1,717	22.1%	1,404	18.0%	924	11.9%
Ulcerative Colitis with Comparators and Acute Pneumonia							
	7,800	1,719	22.0%	1,409	18.1%	924	11.8%
Ulcerative Colitis with Comparators and Pyelonephritis							
	7,876	1,723	21.9%	1,420	18.0%	932	11.8%
Ulcerative Colitis with Comparators and Gastrointestinal Infection							
	7,823	1,719	22.0%	1,412	18.0%	931	11.9%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections							
	7,828	1,719	22.0%	1,414	18.1%	929	11.9%
November 1, 2019 - March 31, 2020							
Ulcerative Colitis with Ustekinumab							
	128	*****	*****	*****	*****	0	0.0%

Table 8. Summary of Follow-up Time for Users Censored Due to Disenrollment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	534	10.1%	2,041	38.7%	1	106	262	534	1,206	348	292
Crohn's Disease with Comparators and Serious Infection Composite Outcome	1,401	10.4%	5,244	38.8%	1	104	264	537	1,218	355	305
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	1,380	10.3%	5,143	38.6%	1	103	262	533	1,218	353	304
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	1,310	10.5%	4,861	38.9%	1	102	265	538	1,188	352	301
Crohn's Disease with Comparators and Acute Meningitis	1,460	10.4%	5,575	39.7%	1	106	271	551	1,218	362	309
Crohn's Disease with Comparators and Acute Osteomyelitis	1,460	10.4%	5,574	39.7%	1	106	271	551	1,218	362	309
Crohn's Disease with Comparators and Acute Bacteremia	1,439	10.4%	5,403	39.2%	1	105	267	543	1,218	358	307
Crohn's Disease with Comparators and Acute Pneumonia	1,436	10.4%	5,437	39.3%	1	105	267	544	1,218	359	307
Crohn's Disease with Comparators and Pyelonephritis	1,460	10.4%	5,569	39.7%	1	106	271	550	1,218	362	308
Crohn's Disease with Comparators and Gastrointestinal Infection	1,444	10.4%	5,496	39.5%	1	106	269	548	1,218	361	308
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	1,441	10.4%	5,484	39.5%	1	105	270	549	1,218	361	308
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	758	9.9%	2,896	37.8%	1	102	251	526	1,259	352	309
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	753	9.9%	2,870	37.7%	1	102	250	526	1,259	351	309

Table 8. Summary of Follow-up Time for Users Censored Due to Disenrollment in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	715	10.1%	2,711	38.2%	1	101	253	530	1,229	350	306
Ulcerative Colitis with Comparators and Acute Meningitis	774	9.8%	3,028	38.4%	1	104	256	538	1,259	356	311
Ulcerative Colitis with Comparators and Acute Osteomyelitis	775	9.8%	3,026	38.4%	1	104	255	537	1,259	356	311
Ulcerative Colitis with Comparators and Acute Bacteremia	764	9.8%	2,974	38.2%	1	104	254	533	1,259	355	310
Ulcerative Colitis with Comparators and Acute Pneumonia	770	9.9%	2,978	38.2%	1	104	254	533	1,259	355	310
Ulcerative Colitis with Comparators and Pyelonephritis	775	9.8%	3,026	38.4%	1	104	256	538	1,259	356	311
Ulcerative Colitis with Comparators and Gastrointestinal Infection	771	9.9%	2,990	38.2%	1	104	254	533	1,259	355	311
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	769	9.8%	2,997	38.3%	1	104	254	535	1,259	355	311
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	0	0.0%	0	0.0%	1	16	29	50	91	34	23

*****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 Follow-up Time for Users Censored Due to Death in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time						
	Total Number of Episodes Due to Death	0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020							
Crohn's Disease with Ustekinumab	51	20	39.2%	*****	*****	*****	*****
Crohn's Disease with Comparators and Serious Infection Composite Outcome	160	61	38.1%	32	20.0%	15	9.4%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	137	51	37.2%	25	18.2%	15	10.9%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	137	50	36.5%	31	22.6%	11	8.0%
Crohn's Disease with Comparators and Acute Meningitis	297	106	35.7%	70	23.6%	23	7.7%
Crohn's Disease with Comparators and Acute Osteomyelitis	297	107	36.0%	69	23.2%	23	7.7%
Crohn's Disease with Comparators and Acute Bacteremia	187	67	35.8%	37	19.8%	16	8.6%
Crohn's Disease with Comparators and Acute Pneumonia	227	87	38.3%	49	21.6%	17	7.5%
Crohn's Disease with Comparators and Pyelonephritis	298	107	35.9%	70	23.5%	23	7.7%
Crohn's Disease with Comparators and Gastrointestinal Infection	260	94	36.2%	59	22.7%	21	8.1%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	276	100	36.2%	65	23.6%	22	8.0%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	94	53	56.4%	23	24.5%	*****	*****
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	82	45	54.9%	21	25.6%	*****	*****

Table 9. Summary of Follow-up Time for Users Censored Due to Death in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time						
	Total Number of Episodes Due to Death	0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout							
	78	44	56.4%	22	28.2%	*****	*****
Ulcerative Colitis with Comparators and Acute Meningitis							
	178	86	48.3%	42	23.6%	*****	*****
Ulcerative Colitis with Comparators and Acute Osteomyelitis							
	177	85	48.0%	41	23.2%	*****	*****
Ulcerative Colitis with Comparators and Acute Bacteremia							
	116	61	52.6%	28	24.1%	*****	*****
Ulcerative Colitis with Comparators and Acute Pneumonia							
	131	66	50.4%	33	25.2%	*****	*****
Ulcerative Colitis with Comparators and Pyelonephritis							
	178	85	47.8%	42	23.6%	*****	*****
Ulcerative Colitis with Comparators and Gastrointestinal Infection							
	167	84	50.3%	40	24.0%	*****	*****
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections							
	162	81	50.0%	38	23.5%	*****	*****
November 1, 2019 - March 31, 2020							
Ulcerative Colitis with Ustekinumab							
	185	174	94.1%	11	5.9%	0	0.0%

Table 9. Summary of Follow-up Time for Users Censored Due to Death in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	*****	*****	12	23.5%	11	62	154	334	930	225	218
Crohn's Disease with Comparators and Serious Infection Composite Outcome	23	14.4%	29	18.1%	3	54	133	314	1,015	211	209
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	20	14.6%	26	19.0%	3	54	142	311	1,015	216	212
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	19	13.9%	26	19.0%	1	59	135	317	985	216	208
Crohn's Disease with Comparators and Acute Meningitis	41	13.8%	57	19.2%	3	58	133	326	1,040	217	213
Crohn's Disease with Comparators and Acute Osteomyelitis	41	13.8%	57	19.2%	3	58	133	326	1,040	217	213
Crohn's Disease with Comparators and Acute Bacteremia	27	14.4%	40	21.4%	3	58	142	335	1,040	229	222
Crohn's Disease with Comparators and Acute Pneumonia	30	13.2%	44	19.4%	3	54	126	321	1,040	211	211
Crohn's Disease with Comparators and Pyelonephritis	40	13.4%	58	19.5%	3	58	133	326	1,040	217	214
Crohn's Disease with Comparators and Gastrointestinal Infection	38	14.6%	48	18.5%	3	58	137	319	1,015	215	208
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	37	13.4%	52	18.8%	3	57	132	319	1,040	215	214
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	*****	*****	*****	*****	2	35	80	154	844	120	147
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	*****	*****	*****	*****	2	35	82	155	844	124	154

Table 9. Summary of Follow-up Time for Users Censored Due to Death in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	*****	*****	*****	*****	1	12	69	135	814	112	153
Ulcerative Colitis with Comparators and Acute Meningitis	*****	*****	23	12.9%	2	41	99	192	1,081	171	202
Ulcerative Colitis with Comparators and Acute Osteomyelitis	*****	*****	23	13.0%	2	41	99	192	1,081	172	203
Ulcerative Colitis with Comparators and Acute Bacteremia	*****	*****	12	10.3%	2	37	85	172	876	147	179
Ulcerative Colitis with Comparators and Acute Pneumonia	*****	*****	13	9.9%	2	37	90	179	876	153	190
Ulcerative Colitis with Comparators and Pyelonephritis	*****	*****	23	12.9%	2	41	99	192	1,081	171	202
Ulcerative Colitis with Comparators and Gastrointestinal Infection	*****	*****	16	9.6%	2	41	90	187	844	148	164
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	*****	*****	20	12.3%	2	40	91	187	876	164	196
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	0	0.0%	0	0.0%	1	19	37	55	146	41	29

*****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 10. Summary of Follow-up Time for Users Censored Due to Data Partner End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Total Number of Episodes Due to Data Partner End Date	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
4,515	857	19.0%	679	15.0%	511	11.3%
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
10,757	1,863	17.3%	1,501	14.0%	1,171	10.9%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
10,594	1,854	17.5%	1,487	14.0%	1,155	10.9%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
10,081	1,773	17.6%	1,363	13.5%	1,101	10.9%
Crohn's Disease with Comparators and Acute Meningitis						
11,181	1,878	16.8%	1,535	13.7%	1,210	10.8%
Crohn's Disease with Comparators and Acute Osteomyelitis						
11,177	1,878	16.8%	1,535	13.7%	1,208	10.8%
Crohn's Disease with Comparators and Acute Bacteremia						
10,949	1,872	17.1%	1,515	13.8%	1,189	10.9%
Crohn's Disease with Comparators and Acute Pneumonia						
11,007	1,874	17.0%	1,525	13.9%	1,195	10.9%
Crohn's Disease with Comparators and Pyelonephritis						
11,173	1,878	16.8%	1,534	13.7%	1,210	10.8%
Crohn's Disease with Comparators and Gastrointestinal Infection						
11,063	1,865	16.9%	1,529	13.8%	1,199	10.8%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
11,044	1,873	17.0%	1,519	13.8%	1,194	10.8%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
6,466	1,198	18.5%	989	15.3%	725	11.2%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
6,426	1,193	18.6%	984	15.3%	721	11.2%

Table 10. Summary of Follow-up Time for Users Censored Due to Data Partner End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Total Number of Episodes Due to Data Partner End Date	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
6,040	1,110	18.4%	882	14.6%	667	11.0%
Ulcerative Colitis with Comparators and Acute Meningitis						
6,659	1,207	18.1%	1,014	15.2%	744	11.2%
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
6,657	1,207	18.1%	1,014	15.2%	744	11.2%
Ulcerative Colitis with Comparators and Acute Bacteremia						
6,570	1,202	18.3%	1,004	15.3%	736	11.2%
Ulcerative Colitis with Comparators and Acute Pneumonia						
6,590	1,205	18.3%	1,006	15.3%	737	11.2%
Ulcerative Colitis with Comparators and Pyelonephritis						
6,656	1,207	18.1%	1,014	15.2%	742	11.1%
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
6,610	1,205	18.2%	1,005	15.2%	741	11.2%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections						
6,613	1,204	18.2%	1,010	15.3%	738	11.2%
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
35	35	100.0%	0	0.0%	0	0.0%

Table 10. Summary of Follow-up Time for Users Censored Due to Data Partner End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	459	10.2%	2,009	44.5%	1	124	310	608	1,272	391	312
Crohn's Disease with Comparators and Serious Infection Composite Outcome	1,073	10.0%	5,149	47.9%	1	137	345	646	1,275	422	330
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	1,053	9.9%	5,045	47.6%	1	135	343	641	1,275	420	329
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	1,014	10.1%	4,830	47.9%	1	139	345	638	1,245	417	323
Crohn's Disease with Comparators and Acute Meningitis	1,118	10.0%	5,440	48.7%	1	141	354	659	1,275	429	333
Crohn's Disease with Comparators and Acute Osteomyelitis	1,118	10.0%	5,438	48.7%	1	141	354	659	1,275	429	332
Crohn's Disease with Comparators and Acute Bacteremia	1,096	10.0%	5,277	48.2%	1	139	349	652	1,275	425	331
Crohn's Disease with Comparators and Acute Pneumonia	1,100	10.0%	5,313	48.3%	1	139	350	653	1,275	426	331
Crohn's Disease with Comparators and Pyelonephritis	1,118	10.0%	5,433	48.6%	1	141	353	659	1,275	429	332
Crohn's Disease with Comparators and Gastrointestinal Infection	1,107	10.0%	5,363	48.5%	1	140	351	658	1,275	428	332
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	1,101	10.0%	5,357	48.5%	1	140	352	658	1,275	428	332
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	597	9.2%	2,957	45.7%	1	126	322	621	1,274	408	331
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	595	9.3%	2,933	45.6%	1	126	322	621	1,274	407	331

Table 10. Summary of Follow-up Time for Users Censored Due to Data Partner End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	578	9.6%	2,803	46.4%	1	127	327	626	1,244	408	325
Ulcerative Colitis with Comparators and Acute Meningitis	611	9.2%	3,083	46.3%	1	128	327	629	1,274	412	332
Ulcerative Colitis with Comparators and Acute Osteomyelitis	611	9.2%	3,081	46.3%	1	128	327	629	1,274	412	332
Ulcerative Colitis with Comparators and Acute Bacteremia	599	9.1%	3,029	46.1%	1	128	325	627	1,274	410	332
Ulcerative Colitis with Comparators and Acute Pneumonia	607	9.2%	3,035	46.1%	1	127	325	625	1,274	410	332
Ulcerative Colitis with Comparators and Pyelonephritis	611	9.2%	3,082	46.3%	1	128	327	629	1,274	412	332
Ulcerative Colitis with Comparators and Gastrointestinal Infection	610	9.2%	3,049	46.1%	1	128	327	625	1,274	411	332
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	606	9.2%	3,055	46.2%	1	128	327	628	1,274	411	332
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	0	0.0%	0	0.0%	1	3	14	19	44	14	11

Table 11. Summary of Follow-up Time for Users Censored Due to Episode End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

Total Number of Episodes Due to Episode End Date	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
2,406	117	4.9%	1,239	51.5%	321	13.3%
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
8,471	1,470	17.4%	3,150	37.2%	1,376	16.2%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
8,084	1,424	17.6%	3,009	37.2%	1,310	16.2%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
8,335	2,998	36.0%	2,068	24.8%	1,176	14.1%
Crohn's Disease with Comparators and Acute Meningitis						
9,106	1,527	16.8%	3,381	37.1%	1,492	16.4%
Crohn's Disease with Comparators and Acute Osteomyelitis						
9,081	1,525	16.8%	3,373	37.1%	1,490	16.4%
Crohn's Disease with Comparators and Acute Bacteremia						
8,706	1,491	17.1%	3,237	37.2%	1,416	16.3%
Crohn's Disease with Comparators and Acute Pneumonia						
8,878	1,507	17.0%	3,296	37.1%	1,450	16.3%
Crohn's Disease with Comparators and Pyelonephritis						
9,095	1,527	16.8%	3,379	37.2%	1,490	16.4%
Crohn's Disease with Comparators and Gastrointestinal Infection						
8,844	1,503	17.0%	3,281	37.1%	1,448	16.4%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
8,837	1,487	16.8%	3,294	37.3%	1,442	16.3%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
4,100	647	15.8%	1,652	40.3%	648	15.8%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
4,000	634	15.9%	1,599	40.0%	638	16.0%

Table 11. Summary of Follow-up Time for Users Censored Due to Episode End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Total Number of Episodes Due to Episode End Date	Number of Episodes by Length of Follow-Up Time					
		0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout							
	4,123	1,535	37.2%	1,032	25.0%	533	12.9%
Ulcerative Colitis with Comparators and Acute Meningitis							
	4,450	680	15.3%	1,793	40.3%	700	15.7%
Ulcerative Colitis with Comparators and Acute Osteomyelitis							
	4,443	680	15.3%	1,791	40.3%	699	15.7%
Ulcerative Colitis with Comparators and Acute Bacteremia							
	4,277	656	15.3%	1,727	40.4%	678	15.9%
Ulcerative Colitis with Comparators and Acute Pneumonia							
	4,337	672	15.5%	1,741	40.1%	679	15.7%
Ulcerative Colitis with Comparators and Pyelonephritis							
	4,448	680	15.3%	1,793	40.3%	700	15.7%
Ulcerative Colitis with Comparators and Gastrointestinal Infection							
	4,347	668	15.4%	1,753	40.3%	682	15.7%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections							
	4,368	676	15.5%	1,756	40.2%	689	15.8%
November 1, 2019 - March 31, 2020							
Ulcerative Colitis with Ustekinumab							
	0	-	-	-	-	-	-

Table 11. Summary of Follow-up Time for Users Censored Due to Episode End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	273	11.3%	456	19.0%	57	112	164	300	1,141	238	185
Crohn's Disease with Comparators and Serious Infection Composite Outcome	888	10.5%	1,587	18.7%	29	112	163	307	1,170	232	185
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	837	10.4%	1,504	18.6%	29	112	161	301	1,170	231	185
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	782	9.4%	1,311	15.7%	4	82	131	271	1,140	201	185
Crohn's Disease with Comparators and Acute Meningitis	966	10.6%	1,740	19.1%	29	112	168	309	1,170	235	187
Crohn's Disease with Comparators and Acute Osteomyelitis	964	10.6%	1,729	19.0%	29	112	168	308	1,170	235	186
Crohn's Disease with Comparators and Acute Bacteremia	921	10.6%	1,641	18.8%	29	112	165	308	1,170	233	185
Crohn's Disease with Comparators and Acute Pneumonia	937	10.6%	1,688	19.0%	29	112	167	308	1,170	234	186
Crohn's Disease with Comparators and Pyelonephritis	964	10.6%	1,735	19.1%	29	112	168	309	1,170	235	186
Crohn's Disease with Comparators and Gastrointestinal Infection	940	10.6%	1,672	18.9%	29	112	166	308	1,170	234	186
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	936	10.6%	1,678	19.0%	29	112	167	308	1,170	234	187
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	380	9.3%	773	18.9%	42	112	155	297	1,177	233	191
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	376	9.4%	753	18.8%	42	112	156	298	1,177	233	190

Table 11. Summary of Follow-up Time for Users Censored Due to Episode End Date in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	358	8.7%	665	16.1%	12	82	125	267	1,147	203	190
Ulcerative Colitis with Comparators and Acute Meningitis	424	9.5%	853	19.2%	42	112	157	307	1,177	236	193
Ulcerative Colitis with Comparators and Acute Osteomyelitis	423	9.5%	850	19.1%	42	112	156	307	1,177	236	193
Ulcerative Colitis with Comparators and Acute Bacteremia	405	9.5%	811	19.0%	42	112	156	303	1,177	234	191
Ulcerative Colitis with Comparators and Acute Pneumonia	416	9.6%	829	19.1%	42	112	156	307	1,177	235	193
Ulcerative Colitis with Comparators and Pyelonephritis	422	9.5%	853	19.2%	42	112	156	308	1,177	236	193
Ulcerative Colitis with Comparators and Gastrointestinal Infection	411	9.5%	833	19.2%	42	112	156	307	1,177	235	192
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	413	9.5%	834	19.1%	42	112	156	307	1,177	235	192
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	-	-	-	-	-	-	-	-	-	-	-

Table 12. Summary of Follow-up Time for Users Censored Due to Additional Criteria in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

Total Number of Episodes Due to Additional Criteria	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020						
Crohn's Disease with Ustekinumab						
1,341	871	65.0%	127	9.5%	114	8.5%
Crohn's Disease with Comparators and Serious Infection Composite Outcome						
3,528	985	27.9%	774	21.9%	556	15.8%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
3,764	1,134	30.1%	819	21.8%	571	15.2%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout						
3,213	838	26.1%	739	23.0%	522	16.2%
Crohn's Disease with Comparators and Acute Meningitis						
4,002	1,167	29.2%	879	22.0%	611	15.3%
Crohn's Disease with Comparators and Acute Osteomyelitis						
4,001	1,167	29.2%	879	22.0%	611	15.3%
Crohn's Disease with Comparators and Acute Bacteremia						
3,915	1,159	29.6%	854	21.8%	597	15.2%
Crohn's Disease with Comparators and Acute Pneumonia						
3,960	1,162	29.3%	871	22.0%	602	15.2%
Crohn's Disease with Comparators and Pyelonephritis						
4,001	1,167	29.2%	879	22.0%	610	15.2%
Crohn's Disease with Comparators and Gastrointestinal Infection						
3,941	1,162	29.5%	862	21.9%	601	15.2%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection						
3,943	1,162	29.5%	863	21.9%	597	15.1%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome						
2,786	793	28.5%	709	25.4%	503	18.1%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion						
2,750	788	28.7%	701	25.5%	495	18.0%

Table 12. Summary of Follow-up Time for Users Censored Due to Additional Criteria in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

Total Number of Episodes Due to Additional Criteria	Number of Episodes by Length of Follow-Up Time					
	0-90 days		91-180 days		181-270 days	
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout						
2,379	631	26.5%	648	27.2%	428	18.0%
Ulcerative Colitis with Comparators and Acute Meningitis						
2,875	808	28.1%	730	25.4%	519	18.1%
Ulcerative Colitis with Comparators and Acute Osteomyelitis						
2,875	808	28.1%	730	25.4%	519	18.1%
Ulcerative Colitis with Comparators and Acute Bacteremia						
2,837	800	28.2%	720	25.4%	511	18.0%
Ulcerative Colitis with Comparators and Acute Pneumonia						
2,845	801	28.2%	724	25.4%	513	18.0%
Ulcerative Colitis with Comparators and Pyelonephritis						
2,872	808	28.1%	729	25.4%	519	18.1%
Ulcerative Colitis with Comparators and Gastrointestinal Infection						
2,854	807	28.3%	720	25.2%	515	18.0%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections						
2,851	804	28.2%	728	25.5%	515	18.1%
November 1, 2019 - March 31, 2020						
Ulcerative Colitis with Ustekinumab						
0	-	-	-	-	-	-

Table 12. Summary of Follow-up Time for Users Censored Due to Additional Criteria in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	89	6.6%	140	10.4%	1	10	24	184	1,006	121	177
Crohn's Disease with Comparators and Serious Infection Composite Outcome	425	12.0%	788	22.3%	1	78	181	343	1,158	239	211
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	435	11.6%	805	21.4%	1	71	171	333	1,194	231	210
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	386	12.0%	728	22.7%	1	86	185	340	1,164	243	206
Crohn's Disease with Comparators and Acute Meningitis	463	11.6%	882	22.0%	1	73	175	339	1,194	235	212
Crohn's Disease with Comparators and Acute Osteomyelitis	463	11.6%	881	22.0%	1	73	175	339	1,194	235	212
Crohn's Disease with Comparators and Acute Bacteremia	452	11.5%	853	21.8%	1	72	174	337	1,194	234	212
Crohn's Disease with Comparators and Acute Pneumonia	458	11.6%	867	21.9%	1	73	174	338	1,194	234	211
Crohn's Disease with Comparators and Pyelonephritis	462	11.5%	883	22.1%	1	73	175	339	1,194	236	212
Crohn's Disease with Comparators and Gastrointestinal Infection	458	11.6%	858	21.8%	1	72	174	337	1,194	234	212
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	458	11.6%	863	21.9%	1	72	174	338	1,194	234	212
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	339	12.2%	442	15.9%	1	75	164	294	1,234	211	188
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	334	12.1%	432	15.7%	1	75	164	293	1,234	209	186

Table 12. Summary of Follow-up Time for Users Censored Due to Additional Criteria in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020¹

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes								
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	301	12.7%	371	15.6%	1	86	165	293	1,204	215	182
Ulcerative Colitis with Comparators and Acute Meningitis	349	12.1%	469	16.3%	1	77	166	297	1,234	213	190
Ulcerative Colitis with Comparators and Acute Osteomyelitis	349	12.1%	469	16.3%	1	77	166	297	1,234	213	190
Ulcerative Colitis with Comparators and Acute Bacteremia	346	12.2%	460	16.2%	1	77	166	296	1,234	213	190
Ulcerative Colitis with Comparators and Acute Pneumonia	347	12.2%	460	16.2%	1	77	166	296	1,234	212	189
Ulcerative Colitis with Comparators and Pyelonephritis	348	12.1%	468	16.3%	1	77	166	296	1,234	213	190
Ulcerative Colitis with Comparators and Gastrointestinal Infection	347	12.2%	465	16.3%	1	77	166	296	1,234	213	190
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	345	12.1%	459	16.1%	1	77	165	295	1,234	212	189
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	-	-	-	-	-	-	-	-	-	-	-

¹Reflects censoring at the dispensing of any treatment of interest other than the index treatment. Treatments of interest include certolizumab pegol, golimumab, natalizumab, tofacitinib, infliximab, adalimumab, vedolizumab, and ustekinumab.

Table 13. Summary of Follow-up Time for Users Censored Due to Event in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Total Number of Episodes Due to Event	Number of Episodes by Length of Follow-Up Time					
		0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
October 1, 2016 - March 31, 2020							
Crohn's Disease with Ustekinumab	0	0	0.0%	0	0.0%	0	0.0%
Crohn's Disease with Comparators and Serious Infection Composite Outcome	1,805	783	43.4%	369	20.4%	221	12.2%
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	2,231	1,004	45.0%	459	20.6%	251	11.3%
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	1,472	612	41.6%	306	20.8%	173	11.8%
Crohn's Disease with Comparators and Acute Meningitis	*****	*****	*****	0	0.0%	*****	*****
Crohn's Disease with Comparators and Acute Osteomyelitis	38	11	28.9%	*****	*****	*****	*****
Crohn's Disease with Comparators and Acute Bacteremia	902	399	44.2%	178	19.7%	103	11.4%
Crohn's Disease with Comparators and Acute Pneumonia	567	222	39.2%	121	21.3%	63	11.1%
Crohn's Disease with Comparators and Pyelonephritis	29	*****	*****	*****	*****	*****	*****
Crohn's Disease with Comparators and Gastrointestinal Infection	534	234	43.8%	111	20.8%	66	12.4%
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	552	251	45.5%	117	21.2%	61	11.1%
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	768	364	47.4%	153	19.9%	79	10.3%
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	974	471	48.4%	203	20.8%	92	9.4%

Table 13. Summary of Follow-up Time for Users Censored Due to Event in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time						
	Total Number of Episodes Due to Event	0-90 days		91-180 days		181-270 days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	614	267	43.5%	124	20.2%	72	11.7%
Ulcerative Colitis with Comparators and Acute Meningitis	*****	*****	*****	0	0.0%	*****	*****
Ulcerative Colitis with Comparators and Acute Osteomyelitis	16	*****	*****	*****	*****	*****	*****
Ulcerative Colitis with Comparators and Acute Bacteremia	383	186	48.6%	77	20.1%	39	10.2%
Ulcerative Colitis with Comparators and Acute Pneumonia	280	141	50.4%	48	17.1%	30	10.7%
Ulcerative Colitis with Comparators and Pyelonephritis	14	*****	*****	*****	*****	*****	*****
Ulcerative Colitis with Comparators and Gastrointestinal Infection	207	93	44.9%	41	19.8%	19	9.2%
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	184	82	44.6%	33	17.9%	24	13.0%
November 1, 2019 - March 31, 2020							
Ulcerative Colitis with Ustekinumab	0	-	-	-	-	-	-

Table 13. Summary of Follow-up Time for Users Censored Due to Event in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
October 1, 2016 - March 31, 2020											
Crohn's Disease with Ustekinumab	0	0.0%	0	0.0%	-	-	-	-	-	-	-
Crohn's Disease with Comparators and Serious Infection Composite Outcome	151	8.4%	281	15.6%	1	46	113	260	1,267	189	206
Crohn's Disease with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	184	8.2%	333	14.9%	1	43	106	250	1,192	184	203
Crohn's Disease with Comparators and Serious Infection Composite Outcome - 30 Day Blackout	126	8.6%	255	17.3%	1	48	123	276	1,237	198	208
Crohn's Disease with Comparators and Acute Meningitis	*****	*****	*****	*****	61	82	204	347	484	232	148
Crohn's Disease with Comparators and Acute Osteomyelitis	*****	*****	*****	*****	8	87	165	320	891	238	210
Crohn's Disease with Comparators and Acute Bacteremia	73	8.1%	149	16.5%	1	45	110	265	1,053	193	212
Crohn's Disease with Comparators and Acute Pneumonia	45	7.9%	116	20.5%	1	52	130	312	1,267	216	226
Crohn's Disease with Comparators and Pyelonephritis	*****	*****	*****	*****	12	61	138	281	923	258	297
Crohn's Disease with Comparators and Gastrointestinal Infection	43	8.1%	80	15.0%	1	44	106	249	1,192	180	194
Crohn's Disease with Comparators and Skin or Soft Tissue Infection	46	8.3%	77	13.9%	1	44	106	236	1,022	177	198
Ulcerative Colitis with Comparators and Serious Infection Composite Outcome	59	7.7%	113	14.7%	1	39	101	248	1,146	179	204
Ulcerative Colitis with Comparators and Serious Infection Composite - No Nosocomial Infection Exclusion	69	7.1%	139	14.3%	1	37	96	235	1,146	173	199

Table 13. Summary of Follow-up Time for Users Censored Due to Event in the Sentinel Distributed Database (SDD) between October 1, 2016 and March 31, 2020

	Number of Episodes by Length of Follow-Up Time				Distribution of Length of Follow-up Time in Days, by Episode						
	271-364 days		365+ days		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes							
Ulcerative Colitis with Comparators and Serious Infection Composite - 30 Day Blackout	49	8.0%	102	16.6%	1	38	108	264	1,116	190	208
Ulcerative Colitis with Comparators and Acute Meningitis	*****	*****	*****	*****	37	181	211	278	392	215	107
Ulcerative Colitis with Comparators and Acute Osteomyelitis	*****	*****	*****	*****	38	98	193	441	688	276	227
Ulcerative Colitis with Comparators and Acute Bacteremia	30	7.8%	51	13.3%	1	37	96	241	1,023	169	190
Ulcerative Colitis with Comparators and Acute Pneumonia	21	7.5%	40	14.3%	2	42	90	245	1,120	176	203
Ulcerative Colitis with Comparators and Pyelonephritis	*****	*****	*****	*****	18	46	103	137	531	136	141
Ulcerative Colitis with Comparators and Gastrointestinal Infection	19	9.2%	35	16.9%	1	38	113	284	1,146	194	222
Ulcerative Colitis with Comparators and Skin or Soft Tissue Infections	17	9.2%	28	15.2%	2	42	106	266	990	191	207
November 1, 2019 - March 31, 2020											
Ulcerative Colitis with Ustekinumab	-	-	-	-	-	-	-	-	-	-	-

*****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: Start and End Dates for Each Data Partner (DP) up to Request Distribution Date (April 9, 2021)

DP ID	DP Start Date	DP End Date
DP01	06/01/2007	10/31/2019
DP02	01/01/2000	07/31/2019
DP03	01/01/2000	12/31/2018
DP04	01/01/2008	03/31/2020
DP05	01/01/2010	12/31/2019
DP06	01/01/2008	02/29/2020
DP07	01/01/2006	01/31/2020

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

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

Nonproprietary Name	Brand Name
Ustekinumab	
ustekinumab	Stelara
Infliximab	
infliximab-abda	Renflexis
infliximab-dyyb	Inflectra
infliximab-axxq	Avsola
infliximab	Remicade
Vedolizumab	
vedolizumab	Entyvio
Adalimumab	
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira(CF) Pen Crohns-Ulcerative Colitis-HS
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-Ulcerative Colitis-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS

Appendix C: List of Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exposure and Comparators of Interest in this Request

Code	Description	Code Category	Code Type
Ustekinumab			
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Infliximab			
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
Vedolizumab			
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
C9026	Injection, vedolizumab, 1 mg	Procedure	HCPCS
Adalimumab			
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS

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

Code	Description	Code Category	Code Type
Acute Meningitis			
A01.01	Typhoid meningitis	Diagnosis	ICD-10-CM
A02.21	Salmonella meningitis	Diagnosis	ICD-10-CM
A17.0	Tuberculous meningitis	Diagnosis	ICD-10-CM
A20.3	Plague meningitis	Diagnosis	ICD-10-CM
A27.81	Aseptic meningitis in leptospirosis	Diagnosis	ICD-10-CM
A32.11	Listerial meningitis	Diagnosis	ICD-10-CM
A39.0	Meningococcal meningitis	Diagnosis	ICD-10-CM
A42.81	Actinomycotic meningitis	Diagnosis	ICD-10-CM
A69.21	Meningitis due to Lyme disease	Diagnosis	ICD-10-CM
A87.0	Enteroviral meningitis	Diagnosis	ICD-10-CM
A87.1	Adenoviral meningitis	Diagnosis	ICD-10-CM
A87.2	Lymphocytic choriomeningitis	Diagnosis	ICD-10-CM
A87.8	Other viral meningitis	Diagnosis	ICD-10-CM
A87.9	Viral meningitis, unspecified	Diagnosis	ICD-10-CM
B00.3	Herpesviral meningitis	Diagnosis	ICD-10-CM
B01.0	Varicella meningitis	Diagnosis	ICD-10-CM
B02.1	Zoster meningitis	Diagnosis	ICD-10-CM
B05.1	Measles complicated by meningitis	Diagnosis	ICD-10-CM
B06.02	Rubella meningitis	Diagnosis	ICD-10-CM
B26.1	Mumps meningitis	Diagnosis	ICD-10-CM
B27.02	Gammaherpesviral mononucleosis with meningitis	Diagnosis	ICD-10-CM
B27.12	Cytomegaloviral mononucleosis with meningitis	Diagnosis	ICD-10-CM
B27.82	Other infectious mononucleosis with meningitis	Diagnosis	ICD-10-CM
B27.92	Infectious mononucleosis, unspecified with meningitis	Diagnosis	ICD-10-CM
B37.5	Candidal meningitis	Diagnosis	ICD-10-CM
B38.4	Coccidioidomycosis meningitis	Diagnosis	ICD-10-CM
B45.1	Cerebral cryptococcosis	Diagnosis	ICD-10-CM
B57.41	Meningitis in Chagas' disease	Diagnosis	ICD-10-CM
G00.0	Hemophilus meningitis	Diagnosis	ICD-10-CM
G00.1	Pneumococcal meningitis	Diagnosis	ICD-10-CM
G00.2	Streptococcal meningitis	Diagnosis	ICD-10-CM
G00.3	Staphylococcal meningitis	Diagnosis	ICD-10-CM
G00.8	Other bacterial meningitis	Diagnosis	ICD-10-CM
G00.9	Bacterial meningitis, unspecified	Diagnosis	ICD-10-CM
G01	Meningitis in bacterial diseases classified elsewhere	Diagnosis	ICD-10-CM
G02	Meningitis in other infectious and parasitic diseases classified elsewhere	Diagnosis	ICD-10-CM
G03.8	Meningitis due to other specified causes	Diagnosis	ICD-10-CM
G03.9	Meningitis, unspecified	Diagnosis	ICD-10-CM
Acute Osteomyelitis			
A01.05	Typhoid osteomyelitis	Diagnosis	ICD-10-CM
A02.24	Salmonella osteomyelitis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
H05.021	Osteomyelitis of right orbit	Diagnosis	ICD-10-CM
H05.022	Osteomyelitis of left orbit	Diagnosis	ICD-10-CM
H05.023	Osteomyelitis of bilateral orbits	Diagnosis	ICD-10-CM
H05.029	Osteomyelitis of unspecified orbit	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
M86.00	Acute hematogenous osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.011	Acute hematogenous osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.012	Acute hematogenous osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.019	Acute hematogenous osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.021	Acute hematogenous osteomyelitis, right humerus	Diagnosis	ICD-10-CM
M86.022	Acute hematogenous osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.029	Acute hematogenous osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.031	Acute hematogenous osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.032	Acute hematogenous osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.039	Acute hematogenous osteomyelitis, unspecified radius and ulna	Diagnosis	ICD-10-CM
M86.041	Acute hematogenous osteomyelitis, right hand	Diagnosis	ICD-10-CM
M86.042	Acute hematogenous osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.049	Acute hematogenous osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.051	Acute hematogenous osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.052	Acute hematogenous osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.059	Acute hematogenous osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.061	Acute hematogenous osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.062	Acute hematogenous osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.069	Acute hematogenous osteomyelitis, unspecified tibia and fibula	Diagnosis	ICD-10-CM
M86.071	Acute hematogenous osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.072	Acute hematogenous osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.079	Acute hematogenous osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.08	Acute hematogenous osteomyelitis, other sites	Diagnosis	ICD-10-CM
M86.09	Acute hematogenous osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.10	Other acute osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.111	Other acute osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.112	Other acute osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.119	Other acute osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.121	Other acute osteomyelitis, right humerus	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M86.122	Other acute osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.129	Other acute osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.131	Other acute osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.132	Other acute osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.139	Other acute osteomyelitis, unspecified radius and ulna	Diagnosis	ICD-10-CM
M86.141	Other acute osteomyelitis, right hand	Diagnosis	ICD-10-CM
M86.142	Other acute osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.149	Other acute osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.151	Other acute osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.152	Other acute osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.159	Other acute osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.161	Other acute osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.162	Other acute osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.169	Other acute osteomyelitis, unspecified tibia and fibula	Diagnosis	ICD-10-CM
M86.171	Other acute osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.172	Other acute osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.179	Other acute osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.18	Other acute osteomyelitis, other site	Diagnosis	ICD-10-CM
M86.19	Other acute osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.20	Subacute osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.211	Subacute osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.212	Subacute osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.219	Subacute osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.221	Subacute osteomyelitis, right humerus	Diagnosis	ICD-10-CM
M86.222	Subacute osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.229	Subacute osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.231	Subacute osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.232	Subacute osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.239	Subacute osteomyelitis, unspecified radius and ulna	Diagnosis	ICD-10-CM
M86.241	Subacute osteomyelitis, right hand	Diagnosis	ICD-10-CM
M86.242	Subacute osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.249	Subacute osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.251	Subacute osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.252	Subacute osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.259	Subacute osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.261	Subacute osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.262	Subacute osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.269	Subacute osteomyelitis, unspecified tibia and fibula	Diagnosis	ICD-10-CM
M86.271	Subacute osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.272	Subacute osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.279	Subacute osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.28	Subacute osteomyelitis, other site	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M86.29	Subacute osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.8X0	Other osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.8X1	Other osteomyelitis, shoulder	Diagnosis	ICD-10-CM
M86.8X2	Other osteomyelitis, upper arm	Diagnosis	ICD-10-CM
M86.8X3	Other osteomyelitis, forearm	Diagnosis	ICD-10-CM
M86.8X4	Other osteomyelitis, hand	Diagnosis	ICD-10-CM
M86.8X5	Other osteomyelitis, thigh	Diagnosis	ICD-10-CM
M86.8X6	Other osteomyelitis, lower leg	Diagnosis	ICD-10-CM
M86.8X7	Other osteomyelitis, ankle and foot	Diagnosis	ICD-10-CM
M86.8X8	Other osteomyelitis, other site	Diagnosis	ICD-10-CM
M86.8X9	Other osteomyelitis, unspecified sites	Diagnosis	ICD-10-CM
M86.9	Osteomyelitis, unspecified	Diagnosis	ICD-10-CM
Bacteremia			
A02.1	Salmonella sepsis	Diagnosis	ICD-10-CM
A32.7	Listerial sepsis	Diagnosis	ICD-10-CM
A32.82	Listerial endocarditis	Diagnosis	ICD-10-CM
A39.2	Acute meningococemia	Diagnosis	ICD-10-CM
A39.4	Meningococemia, unspecified	Diagnosis	ICD-10-CM
A39.51	Meningococcal endocarditis	Diagnosis	ICD-10-CM
A40.0	Sepsis due to streptococcus, group A	Diagnosis	ICD-10-CM
A40.1	Sepsis due to streptococcus, group B	Diagnosis	ICD-10-CM
A40.3	Sepsis due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
A40.8	Other streptococcal sepsis	Diagnosis	ICD-10-CM
A40.9	Streptococcal sepsis, unspecified	Diagnosis	ICD-10-CM
A41.01	Sepsis due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
A41.02	Sepsis due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
A41.1	Sepsis due to other specified staphylococcus	Diagnosis	ICD-10-CM
A41.2	Sepsis due to unspecified staphylococcus	Diagnosis	ICD-10-CM
A41.3	Sepsis due to Hemophilus influenzae	Diagnosis	ICD-10-CM
A41.4	Sepsis due to anaerobes	Diagnosis	ICD-10-CM
A41.50	Gram-negative sepsis, unspecified	Diagnosis	ICD-10-CM
A41.51	Sepsis due to Escherichia coli [E. coli]	Diagnosis	ICD-10-CM
A41.52	Sepsis due to Pseudomonas	Diagnosis	ICD-10-CM
A41.53	Sepsis due to Serratia	Diagnosis	ICD-10-CM
A41.59	Other Gram-negative sepsis	Diagnosis	ICD-10-CM
A41.81	Sepsis due to Enterococcus	Diagnosis	ICD-10-CM
A41.89	Other specified sepsis	Diagnosis	ICD-10-CM
A41.9	Sepsis, unspecified organism	Diagnosis	ICD-10-CM
A42.7	Actinomycotic sepsis	Diagnosis	ICD-10-CM
A54.86	Gonococcal sepsis	Diagnosis	ICD-10-CM
B33.21	Viral endocarditis	Diagnosis	ICD-10-CM
B37.6	Candidal endocarditis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B37.7	Candidal sepsis	Diagnosis	ICD-10-CM
I33.0	Acute and subacute infective endocarditis	Diagnosis	ICD-10-CM
I76	Septic arterial embolism	Diagnosis	ICD-10-CM
R65.20	Severe sepsis without septic shock	Diagnosis	ICD-10-CM
R65.21	Severe sepsis with septic shock	Diagnosis	ICD-10-CM
R78.81	Bacteremia	Diagnosis	ICD-10-CM
Pneumonia			
A01.03	Typhoid pneumonia	Diagnosis	ICD-10-CM
A02.22	Salmonella pneumonia	Diagnosis	ICD-10-CM
A20.2	Pneumonic plague	Diagnosis	ICD-10-CM
A21.2	Pulmonary tularemia	Diagnosis	ICD-10-CM
A31.0	Pulmonary mycobacterial infection	Diagnosis	ICD-10-CM
A37.01	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia	Diagnosis	ICD-10-CM
A37.81	Whooping cough due to other Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.91	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
A43.0	Pulmonary nocardiosis	Diagnosis	ICD-10-CM
A48.1	Legionnaires' disease	Diagnosis	ICD-10-CM
B01.2	Varicella pneumonia	Diagnosis	ICD-10-CM
B05.2	Measles complicated by pneumonia	Diagnosis	ICD-10-CM
B06.81	Rubella pneumonia	Diagnosis	ICD-10-CM
B25.0	Cytomegaloviral pneumonitis	Diagnosis	ICD-10-CM
B37.1	Pulmonary candidiasis	Diagnosis	ICD-10-CM
B38.0	Acute pulmonary coccidioidomycosis	Diagnosis	ICD-10-CM
B38.2	Pulmonary coccidioidomycosis, unspecified	Diagnosis	ICD-10-CM
B39.0	Acute pulmonary histoplasmosis capsulati	Diagnosis	ICD-10-CM
B39.2	Pulmonary histoplasmosis capsulati, unspecified	Diagnosis	ICD-10-CM
B58.3	Pulmonary toxoplasmosis	Diagnosis	ICD-10-CM
B59	Pneumocystosis	Diagnosis	ICD-10-CM
B77.81	Ascariasis pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J12.0	Adenoviral pneumonia	Diagnosis	ICD-10-CM
J12.1	Respiratory syncytial virus pneumonia	Diagnosis	ICD-10-CM
J12.2	Parainfluenza virus pneumonia	Diagnosis	ICD-10-CM
J12.3	Human metapneumovirus pneumonia	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.89	Other viral pneumonia	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.5	Pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J85.1	Abscess of lung with pneumonia	Diagnosis	ICD-10-CM
Pyelonephritis			
N10	Acute pyelonephritis	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
Serious gastrointestinal infection			
A04.8	Other specified bacterial intestinal infections	Diagnosis	ICD-10-CM
A04.9	Bacterial intestinal infection, unspecified	Diagnosis	ICD-10-CM
A74.81	Chlamydial peritonitis	Diagnosis	ICD-10-CM
D73.3	Abscess of spleen	Diagnosis	ICD-10-CM
K35.2	Acute appendicitis with generalized peritonitis	Diagnosis	ICD-10-CM
K35.3	Acute appendicitis with localized peritonitis	Diagnosis	ICD-10-CM
K35.80	Unspecified acute appendicitis	Diagnosis	ICD-10-CM
K35.89	Other acute appendicitis	Diagnosis	ICD-10-CM
K36	Other appendicitis	Diagnosis	ICD-10-CM
K37	Unspecified appendicitis	Diagnosis	ICD-10-CM
K38.9	Disease of appendix, unspecified	Diagnosis	ICD-10-CM
K55.30	Necrotizing enterocolitis, unspecified	Diagnosis	ICD-10-CM
K55.31	Stage 1 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K55.32	Stage 2 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K55.33	Stage 3 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K57.00	Diverticulitis of small intestine with perforation and abscess without bleeding	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.12	Diverticulitis of small intestine without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K57.20	Diverticulitis of large intestine with perforation and abscess without bleeding	Diagnosis	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.32	Diverticulitis of large intestine without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K57.40	Diverticulitis of both small and large intestine with perforation and abscess without bleeding	Diagnosis	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.52	Diverticulitis of both small and large intestine without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K57.80	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleeding	Diagnosis	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.92	Diverticulitis of intestine, part unspecified, without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K63.0	Abscess of intestine	Diagnosis	ICD-10-CM
K65.0	Generalized (acute) peritonitis	Diagnosis	ICD-10-CM
K65.1	Peritoneal abscess	Diagnosis	ICD-10-CM
K65.2	Spontaneous bacterial peritonitis	Diagnosis	ICD-10-CM
K65.3	Choleperitonitis	Diagnosis	ICD-10-CM
K65.8	Other peritonitis	Diagnosis	ICD-10-CM
K65.9	Peritonitis, unspecified	Diagnosis	ICD-10-CM
K68.19	Other retroperitoneal abscess	Diagnosis	ICD-10-CM
K75.0	Abscess of liver	Diagnosis	ICD-10-CM
K81.0	Acute cholecystitis	Diagnosis	ICD-10-CM
K81.2	Acute cholecystitis with chronic cholecystitis	Diagnosis	ICD-10-CM
K81.9	Cholecystitis, unspecified	Diagnosis	ICD-10-CM
K85.0	Idiopathic acute pancreatitis	Diagnosis	ICD-10-CM
K85.00	Idiopathic acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.01	Idiopathic acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.02	Idiopathic acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.1	Biliary acute pancreatitis	Diagnosis	ICD-10-CM
K85.10	Biliary acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.11	Biliary acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K85.12	Biliary acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.3	Drug induced acute pancreatitis	Diagnosis	ICD-10-CM
K85.30	Drug induced acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.31	Drug induced acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.32	Drug induced acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.8	Other acute pancreatitis	Diagnosis	ICD-10-CM
K85.80	Other acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.81	Other acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.82	Other acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.9	Acute pancreatitis, unspecified	Diagnosis	ICD-10-CM
K85.90	Acute pancreatitis without necrosis or infection, unspecified	Diagnosis	ICD-10-CM
K85.91	Acute pancreatitis with uninfected necrosis, unspecified	Diagnosis	ICD-10-CM
K85.92	Acute pancreatitis with infected necrosis, unspecified	Diagnosis	ICD-10-CM
Skin and Soft Tissue			
A31.1	Cutaneous mycobacterial infection	Diagnosis	ICD-10-CM
A36.3	Cutaneous diphtheria	Diagnosis	ICD-10-CM
A43.1	Cutaneous nocardiosis	Diagnosis	ICD-10-CM
A46	Erysipelas	Diagnosis	ICD-10-CM
A48.0	Gas gangrene	Diagnosis	ICD-10-CM
H00.031	Abscess of right upper eyelid	Diagnosis	ICD-10-CM
H00.032	Abscess of right lower eyelid	Diagnosis	ICD-10-CM
H00.033	Abscess of eyelid right eye, unspecified eyelid	Diagnosis	ICD-10-CM
H00.034	Abscess of left upper eyelid	Diagnosis	ICD-10-CM
H00.035	Abscess of left lower eyelid	Diagnosis	ICD-10-CM
H00.036	Abscess of eyelid left eye, unspecified eyelid	Diagnosis	ICD-10-CM
H00.039	Abscess of eyelid unspecified eye, unspecified eyelid	Diagnosis	ICD-10-CM
H05.011	Cellulitis of right orbit	Diagnosis	ICD-10-CM
H05.012	Cellulitis of left orbit	Diagnosis	ICD-10-CM
H05.013	Cellulitis of bilateral orbits	Diagnosis	ICD-10-CM
H05.019	Cellulitis of unspecified orbit	Diagnosis	ICD-10-CM
H60.00	Abscess of external ear, unspecified ear	Diagnosis	ICD-10-CM
H60.01	Abscess of right external ear	Diagnosis	ICD-10-CM
H60.02	Abscess of left external ear	Diagnosis	ICD-10-CM
H60.03	Abscess of external ear, bilateral	Diagnosis	ICD-10-CM
H60.10	Cellulitis of external ear, unspecified ear	Diagnosis	ICD-10-CM
H60.11	Cellulitis of right external ear	Diagnosis	ICD-10-CM
H60.12	Cellulitis of left external ear	Diagnosis	ICD-10-CM
H60.13	Cellulitis of external ear, bilateral	Diagnosis	ICD-10-CM
I70.261	Atherosclerosis of native arteries of extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.262	Atherosclerosis of native arteries of extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.268	Atherosclerosis of native arteries of extremities with gangrene, other extremity	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
I70.269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I73.01	Raynaud's syndrome with gangrene	Diagnosis	ICD-10-CM
I96	Gangrene, not elsewhere classified	Diagnosis	ICD-10-CM
J34.0	Abscess, furuncle and carbuncle of nose	Diagnosis	ICD-10-CM
J85.0	Gangrene and necrosis of lung	Diagnosis	ICD-10-CM
K12.2	Cellulitis and abscess of mouth	Diagnosis	ICD-10-CM
K61.0	Anal abscess	Diagnosis	ICD-10-CM
K61.1	Rectal abscess	Diagnosis	ICD-10-CM
K61.2	Anorectal abscess	Diagnosis	ICD-10-CM
K61.3	Ischiorectal abscess	Diagnosis	ICD-10-CM
L01.00	Impetigo, unspecified	Diagnosis	ICD-10-CM
L01.01	Non-bullous impetigo	Diagnosis	ICD-10-CM
L01.02	Bockhart's impetigo	Diagnosis	ICD-10-CM
L01.03	Bullous impetigo	Diagnosis	ICD-10-CM
L01.09	Other impetigo	Diagnosis	ICD-10-CM
L01.1	Impetiginization of other dermatoses	Diagnosis	ICD-10-CM
L02.01	Cutaneous abscess of face	Diagnosis	ICD-10-CM
L02.02	Furuncle of face	Diagnosis	ICD-10-CM
L02.03	Carbuncle of face	Diagnosis	ICD-10-CM
L02.11	Cutaneous abscess of neck	Diagnosis	ICD-10-CM
L02.12	Furuncle of neck	Diagnosis	ICD-10-CM
L02.13	Carbuncle of neck	Diagnosis	ICD-10-CM
L02.211	Cutaneous abscess of abdominal wall	Diagnosis	ICD-10-CM
L02.212	Cutaneous abscess of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.213	Cutaneous abscess of chest wall	Diagnosis	ICD-10-CM
L02.214	Cutaneous abscess of groin	Diagnosis	ICD-10-CM
L02.215	Cutaneous abscess of perineum	Diagnosis	ICD-10-CM
L02.216	Cutaneous abscess of umbilicus	Diagnosis	ICD-10-CM
L02.219	Cutaneous abscess of trunk, unspecified	Diagnosis	ICD-10-CM
L02.221	Furuncle of abdominal wall	Diagnosis	ICD-10-CM
L02.222	Furuncle of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.223	Furuncle of chest wall	Diagnosis	ICD-10-CM
L02.224	Furuncle of groin	Diagnosis	ICD-10-CM
L02.225	Furuncle of perineum	Diagnosis	ICD-10-CM
L02.226	Furuncle of umbilicus	Diagnosis	ICD-10-CM
L02.229	Furuncle of trunk, unspecified	Diagnosis	ICD-10-CM
L02.231	Carbuncle of abdominal wall	Diagnosis	ICD-10-CM
L02.232	Carbuncle of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.233	Carbuncle of chest wall	Diagnosis	ICD-10-CM
L02.234	Carbuncle of groin	Diagnosis	ICD-10-CM
L02.235	Carbuncle of perineum	Diagnosis	ICD-10-CM
L02.236	Carbuncle of umbilicus	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L02.239	Carbuncle of trunk, unspecified	Diagnosis	ICD-10-CM
L02.31	Cutaneous abscess of buttock	Diagnosis	ICD-10-CM
L02.32	Furuncle of buttock	Diagnosis	ICD-10-CM
L02.33	Carbuncle of buttock	Diagnosis	ICD-10-CM
L02.411	Cutaneous abscess of right axilla	Diagnosis	ICD-10-CM
L02.412	Cutaneous abscess of left axilla	Diagnosis	ICD-10-CM
L02.413	Cutaneous abscess of right upper limb	Diagnosis	ICD-10-CM
L02.414	Cutaneous abscess of left upper limb	Diagnosis	ICD-10-CM
L02.415	Cutaneous abscess of right lower limb	Diagnosis	ICD-10-CM
L02.416	Cutaneous abscess of left lower limb	Diagnosis	ICD-10-CM
L02.419	Cutaneous abscess of limb, unspecified	Diagnosis	ICD-10-CM
L02.421	Furuncle of right axilla	Diagnosis	ICD-10-CM
L02.422	Furuncle of left axilla	Diagnosis	ICD-10-CM
L02.423	Furuncle of right upper limb	Diagnosis	ICD-10-CM
L02.424	Furuncle of left upper limb	Diagnosis	ICD-10-CM
L02.425	Furuncle of right lower limb	Diagnosis	ICD-10-CM
L02.426	Furuncle of left lower limb	Diagnosis	ICD-10-CM
L02.429	Furuncle of limb, unspecified	Diagnosis	ICD-10-CM
L02.431	Carbuncle of right axilla	Diagnosis	ICD-10-CM
L02.432	Carbuncle of left axilla	Diagnosis	ICD-10-CM
L02.433	Carbuncle of right upper limb	Diagnosis	ICD-10-CM
L02.434	Carbuncle of left upper limb	Diagnosis	ICD-10-CM
L02.435	Carbuncle of right lower limb	Diagnosis	ICD-10-CM
L02.436	Carbuncle of left lower limb	Diagnosis	ICD-10-CM
L02.439	Carbuncle of limb, unspecified	Diagnosis	ICD-10-CM
L02.511	Cutaneous abscess of right hand	Diagnosis	ICD-10-CM
L02.512	Cutaneous abscess of left hand	Diagnosis	ICD-10-CM
L02.519	Cutaneous abscess of unspecified hand	Diagnosis	ICD-10-CM
L02.521	Furuncle right hand	Diagnosis	ICD-10-CM
L02.522	Furuncle left hand	Diagnosis	ICD-10-CM
L02.529	Furuncle unspecified hand	Diagnosis	ICD-10-CM
L02.531	Carbuncle of right hand	Diagnosis	ICD-10-CM
L02.532	Carbuncle of left hand	Diagnosis	ICD-10-CM
L02.539	Carbuncle of unspecified hand	Diagnosis	ICD-10-CM
L02.611	Cutaneous abscess of right foot	Diagnosis	ICD-10-CM
L02.612	Cutaneous abscess of left foot	Diagnosis	ICD-10-CM
L02.619	Cutaneous abscess of unspecified foot	Diagnosis	ICD-10-CM
L02.621	Furuncle of right foot	Diagnosis	ICD-10-CM
L02.622	Furuncle of left foot	Diagnosis	ICD-10-CM
L02.629	Furuncle of unspecified foot	Diagnosis	ICD-10-CM
L02.631	Carbuncle of right foot	Diagnosis	ICD-10-CM
L02.632	Carbuncle of left foot	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L02.639	Carbuncle of unspecified foot	Diagnosis	ICD-10-CM
L02.811	Cutaneous abscess of head [any part, except face]	Diagnosis	ICD-10-CM
L02.818	Cutaneous abscess of other sites	Diagnosis	ICD-10-CM
L02.821	Furuncle of head [any part, except face]	Diagnosis	ICD-10-CM
L02.828	Furuncle of other sites	Diagnosis	ICD-10-CM
L02.831	Carbuncle of head [any part, except face]	Diagnosis	ICD-10-CM
L02.838	Carbuncle of other sites	Diagnosis	ICD-10-CM
L02.91	Cutaneous abscess, unspecified	Diagnosis	ICD-10-CM
L02.92	Furuncle, unspecified	Diagnosis	ICD-10-CM
L02.93	Carbuncle, unspecified	Diagnosis	ICD-10-CM
L03.011	Cellulitis of right finger	Diagnosis	ICD-10-CM
L03.012	Cellulitis of left finger	Diagnosis	ICD-10-CM
L03.019	Cellulitis of unspecified finger	Diagnosis	ICD-10-CM
L03.031	Cellulitis of right toe	Diagnosis	ICD-10-CM
L03.032	Cellulitis of left toe	Diagnosis	ICD-10-CM
L03.039	Cellulitis of unspecified toe	Diagnosis	ICD-10-CM
L03.111	Cellulitis of right axilla	Diagnosis	ICD-10-CM
L03.112	Cellulitis of left axilla	Diagnosis	ICD-10-CM
L03.113	Cellulitis of right upper limb	Diagnosis	ICD-10-CM
L03.114	Cellulitis of left upper limb	Diagnosis	ICD-10-CM
L03.115	Cellulitis of right lower limb	Diagnosis	ICD-10-CM
L03.116	Cellulitis of left lower limb	Diagnosis	ICD-10-CM
L03.119	Cellulitis of unspecified part of limb	Diagnosis	ICD-10-CM
L03.211	Cellulitis of face	Diagnosis	ICD-10-CM
L03.213	Periorbital cellulitis	Diagnosis	ICD-10-CM
L03.221	Cellulitis of neck	Diagnosis	ICD-10-CM
L03.311	Cellulitis of abdominal wall	Diagnosis	ICD-10-CM
L03.312	Cellulitis of back [any part except buttock]	Diagnosis	ICD-10-CM
L03.313	Cellulitis of chest wall	Diagnosis	ICD-10-CM
L03.314	Cellulitis of groin	Diagnosis	ICD-10-CM
L03.315	Cellulitis of perineum	Diagnosis	ICD-10-CM
L03.316	Cellulitis of umbilicus	Diagnosis	ICD-10-CM
L03.317	Cellulitis of buttock	Diagnosis	ICD-10-CM
L03.319	Cellulitis of trunk, unspecified	Diagnosis	ICD-10-CM
L03.811	Cellulitis of head [any part, except face]	Diagnosis	ICD-10-CM
L03.818	Cellulitis of other sites	Diagnosis	ICD-10-CM
L03.90	Cellulitis, unspecified	Diagnosis	ICD-10-CM
L05.01	Pilonidal cyst with abscess	Diagnosis	ICD-10-CM
L05.02	Pilonidal sinus with abscess	Diagnosis	ICD-10-CM
L05.91	Pilonidal cyst without abscess	Diagnosis	ICD-10-CM
L05.92	Pilonidal sinus without abscess	Diagnosis	ICD-10-CM
L08.89	Other specified local infections of the skin and subcutaneous tissue	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L08.9	Local infection of the skin and subcutaneous tissue, unspecified	Diagnosis	ICD-10-CM
M72.6	Necrotizing fasciitis	Diagnosis	ICD-10-CM
N48.21	Abscess of corpus cavernosum and penis	Diagnosis	ICD-10-CM
N48.22	Cellulitis of corpus cavernosum and penis	Diagnosis	ICD-10-CM
N61.1	Abscess of the breast and nipple	Diagnosis	ICD-10-CM
N73.0	Acute parametritis and pelvic cellulitis	Diagnosis	ICD-10-CM
N73.2	Unspecified parametritis and pelvic cellulitis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
Serious and non-serious infection			
A00.0	Cholera due to <i>Vibrio cholerae</i> 01, biovar cholerae	Diagnosis	ICD-10-CM
A00.1	Cholera due to <i>Vibrio cholerae</i> 01, biovar eltor	Diagnosis	ICD-10-CM
A00.9	Cholera, unspecified	Diagnosis	ICD-10-CM
A01.01	Typhoid fever, unspecified	Diagnosis	ICD-10-CM
A01.05	Typhoid meningitis	Diagnosis	ICD-10-CM
A01.1	Typhoid fever with heart involvement	Diagnosis	ICD-10-CM
A01.2	Typhoid pneumonia	Diagnosis	ICD-10-CM
A01.3	Typhoid arthritis	Diagnosis	ICD-10-CM
A01.4	Typhoid osteomyelitis	Diagnosis	ICD-10-CM
A02.0	Typhoid fever with other complications	Diagnosis	ICD-10-CM
A02.1	Paratyphoid fever A	Diagnosis	ICD-10-CM
A02.20	Paratyphoid fever B	Diagnosis	ICD-10-CM
A02.20	Paratyphoid fever C	Diagnosis	ICD-10-CM
A02.23	Paratyphoid fever, unspecified	Diagnosis	ICD-10-CM
A02.24	<i>Salmonella</i> enteritis	Diagnosis	ICD-10-CM
A02.25	<i>Salmonella</i> sepsis	Diagnosis	ICD-10-CM
A02.8	Localized salmonella infection, unspecified	Diagnosis	ICD-10-CM
A03.0	<i>Salmonella</i> meningitis	Diagnosis	ICD-10-CM
A03.2	<i>Salmonella</i> pneumonia	Diagnosis	ICD-10-CM
A03.3	<i>Salmonella</i> arthritis	Diagnosis	ICD-10-CM
A03.8	<i>Salmonella</i> osteomyelitis	Diagnosis	ICD-10-CM
A03.9	<i>Salmonella</i> pyelonephritis	Diagnosis	ICD-10-CM
A04	<i>Salmonella</i> with other localized infection	Diagnosis	ICD-10-CM
A04	Other specified salmonella infections	Diagnosis	ICD-10-CM
A04.0	<i>Salmonella</i> infection, unspecified	Diagnosis	ICD-10-CM
A04.0	Shigellosis due to <i>Shigella dysenteriae</i>	Diagnosis	ICD-10-CM
A04.1	Shigellosis due to <i>Shigella flexneri</i>	Diagnosis	ICD-10-CM
A04.1	Shigellosis due to <i>Shigella boydii</i>	Diagnosis	ICD-10-CM
A04.2	Shigellosis due to <i>Shigella sonnei</i>	Diagnosis	ICD-10-CM
A04.3	Other shigellosis	Diagnosis	ICD-10-CM
A04.4	Shigellosis, unspecified	Diagnosis	ICD-10-CM
A04.5	Other bacterial intestinal infections	Diagnosis	ICD-10-CM
A04.6	Enteropathogenic <i>Escherichia coli</i> infection	Diagnosis	ICD-10-CM
A04.7	Enterotoxigenic <i>Escherichia coli</i> infection	Diagnosis	ICD-10-CM
A04.71	Enteroinvasive <i>Escherichia coli</i> infection	Diagnosis	ICD-10-CM
A04.71	Enterohemorrhagic <i>Escherichia coli</i> infection	Diagnosis	ICD-10-CM
A04.72	Other intestinal <i>Escherichia coli</i> infections	Diagnosis	ICD-10-CM
A04.8	<i>Campylobacter</i> enteritis	Diagnosis	ICD-10-CM
A04.8	Enteritis due to <i>Yersinia enterocolitica</i>	Diagnosis	ICD-10-CM
A04.9	Enterocolitis due to <i>Clostridium difficile</i>	Diagnosis	ICD-10-CM
A05.0	Enterocolitis due to <i>Clostridium difficile</i> , recurrent	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A05.0	Enterocolitis d/t Clostridium difficile, not spcf as recur	Diagnosis	ICD-10-CM
A05.1	Other specified bacterial intestinal infections	Diagnosis	ICD-10-CM
A05.2	Bacterial intestinal infection, unspecified	Diagnosis	ICD-10-CM
A05.3	Foodborne staphylococcal intoxication	Diagnosis	ICD-10-CM
A05.4	Botulism food poisoning	Diagnosis	ICD-10-CM
A05.5	Foodborne Clostridium perfringens intoxication	Diagnosis	ICD-10-CM
A05.8	Foodborne Vibrio parahaemolyticus intoxication	Diagnosis	ICD-10-CM
A05.9	Foodborne Bacillus cereus intoxication	Diagnosis	ICD-10-CM
A06.0	Foodborne Vibrio vulnificus intoxication	Diagnosis	ICD-10-CM
A06.1	Other specified bacterial foodborne intoxications	Diagnosis	ICD-10-CM
A06.2	Bacterial foodborne intoxication, unspecified	Diagnosis	ICD-10-CM
A06.2	Acute amebic dysentery	Diagnosis	ICD-10-CM
A06.3	Chronic intestinal amebiasis	Diagnosis	ICD-10-CM
A06.4	Amebic nondysenteric colitis	Diagnosis	ICD-10-CM
A06.4	Ameboma of intestine	Diagnosis	ICD-10-CM
A06.5	Amebic liver abscess	Diagnosis	ICD-10-CM
A06.6	Amebic lung abscess	Diagnosis	ICD-10-CM
A06.7	Amebic brain abscess	Diagnosis	ICD-10-CM
A06.81	Cutaneous amebiasis	Diagnosis	ICD-10-CM
A06.82	Amebic cystitis	Diagnosis	ICD-10-CM
A06.82	Other amebic genitourinary infections	Diagnosis	ICD-10-CM
A06.89	Other amebic infections	Diagnosis	ICD-10-CM
A06.9	Amebiasis, unspecified	Diagnosis	ICD-10-CM
A07.0	Balantidiasis	Diagnosis	ICD-10-CM
A07.1	Giardiasis [lambliasis]	Diagnosis	ICD-10-CM
A07.2	Cryptosporidiosis	Diagnosis	ICD-10-CM
A07.3	Isosporiasis	Diagnosis	ICD-10-CM
A07.8	Cyclosporiasis	Diagnosis	ICD-10-CM
A07.8	Other specified protozoal intestinal diseases	Diagnosis	ICD-10-CM
A07.9	Protozoal intestinal disease, unspecified	Diagnosis	ICD-10-CM
A08.11	Rotaviral enteritis	Diagnosis	ICD-10-CM
A08.2	Acute gastroenteropathy due to Norwalk agent	Diagnosis	ICD-10-CM
A08.31	Acute gastroenteropathy due to other small round viruses	Diagnosis	ICD-10-CM
A08.32	Adenoviral enteritis	Diagnosis	ICD-10-CM
A08.39	Calicivirus enteritis	Diagnosis	ICD-10-CM
A08.4	Astrovirus enteritis	Diagnosis	ICD-10-CM
A08.8	Other viral enteritis	Diagnosis	ICD-10-CM
A09	Viral intestinal infection, unspecified	Diagnosis	ICD-10-CM
A15.0	Other specified intestinal infections	Diagnosis	ICD-10-CM
A15.4	Infectious gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
A15.5	Tuberculosis of lung	Diagnosis	ICD-10-CM
A15.6	Tuberculosis of intrathoracic lymph nodes	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A15.7	Tuberculosis of larynx, trachea and bronchus	Diagnosis	ICD-10-CM
A15.8	Tuberculous pleurisy	Diagnosis	ICD-10-CM
A15.9	Primary respiratory tuberculosis	Diagnosis	ICD-10-CM
A17.0	Other respiratory tuberculosis	Diagnosis	ICD-10-CM
A17.1	Respiratory tuberculosis unspecified	Diagnosis	ICD-10-CM
A17.1	Tuberculous meningitis	Diagnosis	ICD-10-CM
A17.81	Meningeal tuberculoma	Diagnosis	ICD-10-CM
A17.89	Tuberculoma of brain and spinal cord	Diagnosis	ICD-10-CM
A17.89	Tuberculous meningoencephalitis	Diagnosis	ICD-10-CM
A17.9	Tuberculous neuritis	Diagnosis	ICD-10-CM
A18.01	Other tuberculosis of nervous system	Diagnosis	ICD-10-CM
A18.02	Tuberculosis of nervous system, unspecified	Diagnosis	ICD-10-CM
A18.03	Tuberculosis of spine	Diagnosis	ICD-10-CM
A18.09	Tuberculous arthritis of other joints	Diagnosis	ICD-10-CM
A18.11	Tuberculosis of other bones	Diagnosis	ICD-10-CM
A18.12	Other musculoskeletal tuberculosis	Diagnosis	ICD-10-CM
A18.13	Tuberculosis of genitourinary system, unspecified	Diagnosis	ICD-10-CM
A18.14	Tuberculosis of kidney and ureter	Diagnosis	ICD-10-CM
A18.15	Tuberculosis of bladder	Diagnosis	ICD-10-CM
A18.16	Tuberculosis of other urinary organs	Diagnosis	ICD-10-CM
A18.17	Tuberculosis of prostate	Diagnosis	ICD-10-CM
A18.18	Tuberculosis of other male genital organs	Diagnosis	ICD-10-CM
A18.31	Tuberculosis of cervix	Diagnosis	ICD-10-CM
A18.32	Tuberculous female pelvic inflammatory disease	Diagnosis	ICD-10-CM
A18.39	Tuberculosis of other female genital organs	Diagnosis	ICD-10-CM
A18.4	Tuberculous peripheral lymphadenopathy	Diagnosis	ICD-10-CM
A18.54	Tuberculous peritonitis	Diagnosis	ICD-10-CM
A18.59	Tuberculous enteritis	Diagnosis	ICD-10-CM
A18.59	Retroperitoneal tuberculosis	Diagnosis	ICD-10-CM
A18.6	Tuberculosis of skin and subcutaneous tissue	Diagnosis	ICD-10-CM
A18.7	Tuberculosis of eye, unspecified	Diagnosis	ICD-10-CM
A18.81	Tuberculous episcleritis	Diagnosis	ICD-10-CM
A18.84	Tuberculous keratitis	Diagnosis	ICD-10-CM
A18.85	Tuberculous chorioretinitis	Diagnosis	ICD-10-CM
A18.89	Tuberculous iridocyclitis	Diagnosis	ICD-10-CM
A19.0	Other tuberculosis of eye	Diagnosis	ICD-10-CM
A19.1	Tuberculosis of (inner) (middle) ear	Diagnosis	ICD-10-CM
A19.2	Tuberculosis of adrenal glands	Diagnosis	ICD-10-CM
A19.2	Tuberculosis of thyroid gland	Diagnosis	ICD-10-CM
A19.8	Tuberculosis of other endocrine glands	Diagnosis	ICD-10-CM
A19.8	Tuberculosis of digestive tract organs, NEC	Diagnosis	ICD-10-CM
A19.9	Tuberculosis of heart	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A20.0	Tuberculosis of spleen	Diagnosis	ICD-10-CM
A20.1	Tuberculosis of other sites	Diagnosis	ICD-10-CM
A20.3	Acute miliary tuberculosis of a single specified site	Diagnosis	ICD-10-CM
A20.3	Acute miliary tuberculosis of multiple sites	Diagnosis	ICD-10-CM
A20.7	Acute miliary tuberculosis, unspecified	Diagnosis	ICD-10-CM
A20.8	Other miliary tuberculosis	Diagnosis	ICD-10-CM
A20.8	Miliary tuberculosis, unspecified	Diagnosis	ICD-10-CM
A20.9	Bubonic plague	Diagnosis	ICD-10-CM
A20.9	Cellulocutaneous plague	Diagnosis	ICD-10-CM
A21.1	Pneumonic plague	Diagnosis	ICD-10-CM
A21.2	Plague meningitis	Diagnosis	ICD-10-CM
A21.3	Septicemic plague	Diagnosis	ICD-10-CM
A21.7	Other forms of plague	Diagnosis	ICD-10-CM
A21.7	Plague, unspecified	Diagnosis	ICD-10-CM
A21.8	Ulceroglandular tularemia	Diagnosis	ICD-10-CM
A21.8	Oculoglandular tularemia	Diagnosis	ICD-10-CM
A21.9	Pulmonary tularemia	Diagnosis	ICD-10-CM
A22.0	Gastrointestinal tularemia	Diagnosis	ICD-10-CM
A22.1	Generalized tularemia	Diagnosis	ICD-10-CM
A22.2	Other forms of tularemia	Diagnosis	ICD-10-CM
A22.2	Tularemia, unspecified	Diagnosis	ICD-10-CM
A22.7	Cutaneous anthrax	Diagnosis	ICD-10-CM
A22.8	Pulmonary anthrax	Diagnosis	ICD-10-CM
A22.8	Gastrointestinal anthrax	Diagnosis	ICD-10-CM
A22.9	Anthrax sepsis	Diagnosis	ICD-10-CM
A22.9	Other forms of anthrax	Diagnosis	ICD-10-CM
A23.0	Anthrax, unspecified	Diagnosis	ICD-10-CM
A23.1	Brucellosis due to Brucella melitensis	Diagnosis	ICD-10-CM
A23.2	Brucellosis due to Brucella abortus	Diagnosis	ICD-10-CM
A23.3	Brucellosis due to Brucella suis	Diagnosis	ICD-10-CM
A23.8	Brucellosis due to Brucella canis	Diagnosis	ICD-10-CM
A23.9	Other brucellosis	Diagnosis	ICD-10-CM
A24.0	Brucellosis, unspecified	Diagnosis	ICD-10-CM
A24.1	Glanders	Diagnosis	ICD-10-CM
A24.2	Acute and fulminating melioidosis	Diagnosis	ICD-10-CM
A24.3	Subacute and chronic melioidosis	Diagnosis	ICD-10-CM
A24.9	Other melioidosis	Diagnosis	ICD-10-CM
A24.9	Melioidosis, unspecified	Diagnosis	ICD-10-CM
A25.1	Spirillosis	Diagnosis	ICD-10-CM
A25.9	Streptobacillosis	Diagnosis	ICD-10-CM
A26.0	Rat-bite fever, unspecified	Diagnosis	ICD-10-CM
A26.7	Cutaneous erysipeloid	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A26.8	Erysipelothrix sepsis	Diagnosis	ICD-10-CM
A26.9	Other forms of erysipeloid	Diagnosis	ICD-10-CM
A27.0	Erysipeloid, unspecified	Diagnosis	ICD-10-CM
A27.81	Leptospirosis icterohemorrhagica	Diagnosis	ICD-10-CM
A27.81	Aseptic meningitis in leptospirosis	Diagnosis	ICD-10-CM
A27.89	Other forms of leptospirosis	Diagnosis	ICD-10-CM
A27.9	Leptospirosis, unspecified	Diagnosis	ICD-10-CM
A27.9	Pasteurellosis	Diagnosis	ICD-10-CM
A28.0	Cat-scratch disease	Diagnosis	ICD-10-CM
A28.0	Extraintestinal yersiniosis	Diagnosis	ICD-10-CM
A28.1	Oth zoonotic bacterial diseases, not elsewhere classified	Diagnosis	ICD-10-CM
A28.2	Zoonotic bacterial disease, unspecified	Diagnosis	ICD-10-CM
A28.8	Indeterminate leprosy	Diagnosis	ICD-10-CM
A30.0	Tuberculoid leprosy	Diagnosis	ICD-10-CM
A30.1	Borderline tuberculoid leprosy	Diagnosis	ICD-10-CM
A30.2	Borderline leprosy	Diagnosis	ICD-10-CM
A30.3	Borderline lepromatous leprosy	Diagnosis	ICD-10-CM
A30.4	Lepromatous leprosy	Diagnosis	ICD-10-CM
A30.5	Other forms of leprosy	Diagnosis	ICD-10-CM
A30.5	Leprosy, unspecified	Diagnosis	ICD-10-CM
A30.8	Pulmonary mycobacterial infection	Diagnosis	ICD-10-CM
A30.9	Cutaneous mycobacterial infection	Diagnosis	ICD-10-CM
A31.0	Dissem mycobacterium avium-intracellulare complex (DMAC)	Diagnosis	ICD-10-CM
A31.1	Other mycobacterial infections	Diagnosis	ICD-10-CM
A31.2	Mycobacterial infection, unspecified	Diagnosis	ICD-10-CM
A31.8	Cutaneous listeriosis	Diagnosis	ICD-10-CM
A31.8	Listerial meningitis	Diagnosis	ICD-10-CM
A31.9	Listerial meningoencephalitis	Diagnosis	ICD-10-CM
A31.9	Listerial sepsis	Diagnosis	ICD-10-CM
A32.11	Oculoglandular listeriosis	Diagnosis	ICD-10-CM
A32.11	Listerial endocarditis	Diagnosis	ICD-10-CM
A32.12	Other forms of listeriosis	Diagnosis	ICD-10-CM
A32.12	Listeriosis, unspecified	Diagnosis	ICD-10-CM
A32.7	Tetanus neonatorum	Diagnosis	ICD-10-CM
A32.7	Obstetrical tetanus	Diagnosis	ICD-10-CM
A32.81	Other tetanus	Diagnosis	ICD-10-CM
A32.82	Pharyngeal diphtheria	Diagnosis	ICD-10-CM
A32.89	Nasopharyngeal diphtheria	Diagnosis	ICD-10-CM
A32.9	Laryngeal diphtheria	Diagnosis	ICD-10-CM
A33	Cutaneous diphtheria	Diagnosis	ICD-10-CM
A34	Diphtheritic cardiomyopathy	Diagnosis	ICD-10-CM
A35	Diphtheritic radiculomyelitis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A36.0	Diphtheritic polyneuritis	Diagnosis	ICD-10-CM
A36.1	Diphtheritic tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
A36.2	Diphtheritic cystitis	Diagnosis	ICD-10-CM
A36.3	Diphtheritic conjunctivitis	Diagnosis	ICD-10-CM
A36.82	Other diphtheritic complications	Diagnosis	ICD-10-CM
A36.83	Diphtheria, unspecified	Diagnosis	ICD-10-CM
A36.84	Whooping cough due to Bordetella pertussis without pneumonia	Diagnosis	ICD-10-CM
A36.85	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A36.89	Whooping cough due to Bordetella parapertussis w/o pneumonia	Diagnosis	ICD-10-CM
A36.9	Whooping cough due to Bordetella parapertussis w pneumonia	Diagnosis	ICD-10-CM
A37.00	Whooping cough due to other Bordetella species w/o pneumonia	Diagnosis	ICD-10-CM
A37.10	Whooping cough due to oth Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough, unspecified species without pneumonia	Diagnosis	ICD-10-CM
A37.80	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
A37.81	Scarlet fever with otitis media	Diagnosis	ICD-10-CM
A37.91	Scarlet fever with myocarditis	Diagnosis	ICD-10-CM
A38.0	Scarlet fever with other complications	Diagnosis	ICD-10-CM
A38.1	Scarlet fever, uncomplicated	Diagnosis	ICD-10-CM
A38.9	Meningococcal meningitis	Diagnosis	ICD-10-CM
A39.0	Waterhouse-Friderichsen syndrome	Diagnosis	ICD-10-CM
A39.1	Acute meningococemia	Diagnosis	ICD-10-CM
A39.2	Chronic meningococemia	Diagnosis	ICD-10-CM
A39.3	Meningococemia, unspecified	Diagnosis	ICD-10-CM
A39.4	Meningococcal carditis, unspecified	Diagnosis	ICD-10-CM
A39.50	Meningococcal endocarditis	Diagnosis	ICD-10-CM
A39.51	Meningococcal myocarditis	Diagnosis	ICD-10-CM
A39.52	Meningococcal pericarditis	Diagnosis	ICD-10-CM
A39.53	Meningococcal encephalitis	Diagnosis	ICD-10-CM
A39.81	Meningococcal retrobulbar neuritis	Diagnosis	ICD-10-CM
A39.81	Meningococcal arthritis	Diagnosis	ICD-10-CM
A39.82	Postmeningococcal arthritis	Diagnosis	ICD-10-CM
A39.83	Other meningococcal infections	Diagnosis	ICD-10-CM
A39.84	Meningococcal infection, unspecified	Diagnosis	ICD-10-CM
A39.9	Sepsis due to streptococcus, group A	Diagnosis	ICD-10-CM
A40.0	Sepsis due to streptococcus, group B	Diagnosis	ICD-10-CM
A40.1	Sepsis due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
A40.3	Other streptococcal sepsis	Diagnosis	ICD-10-CM
A40.8	Streptococcal sepsis, unspecified	Diagnosis	ICD-10-CM
A41	Other sepsis	Diagnosis	ICD-10-CM
A41.0	Sepsis due to Staphylococcus aureus	Diagnosis	ICD-10-CM
A41.01	Sepsis due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
A41.02	Sepsis due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A41.1	Sepsis due to other specified staphylococcus	Diagnosis	ICD-10-CM
A41.2	Sepsis due to unspecified staphylococcus	Diagnosis	ICD-10-CM
A41.3	Sepsis due to Hemophilus influenzae	Diagnosis	ICD-10-CM
A41.4	Sepsis due to anaerobes	Diagnosis	ICD-10-CM
A41.5	Sepsis due to other Gram-negative organisms	Diagnosis	ICD-10-CM
A41.50	Gram-negative sepsis, unspecified	Diagnosis	ICD-10-CM
A41.51	Sepsis due to Escherichia coli [E. coli]	Diagnosis	ICD-10-CM
A41.52	Sepsis due to Pseudomonas	Diagnosis	ICD-10-CM
A41.53	Sepsis due to Serratia	Diagnosis	ICD-10-CM
A41.8	Other Gram-negative sepsis	Diagnosis	ICD-10-CM
A41.8	Other specified sepsis	Diagnosis	ICD-10-CM
A41.81	Sepsis due to Enterococcus	Diagnosis	ICD-10-CM
A41.89	Other specified sepsis	Diagnosis	ICD-10-CM
A41.9	Sepsis, unspecified organism	Diagnosis	ICD-10-CM
A42.1	Pulmonary actinomycosis	Diagnosis	ICD-10-CM
A42.2	Abdominal actinomycosis	Diagnosis	ICD-10-CM
A42.7	Cervicofacial actinomycosis	Diagnosis	ICD-10-CM
A42.81	Actinomycotic sepsis	Diagnosis	ICD-10-CM
A42.82	Actinomycotic meningitis	Diagnosis	ICD-10-CM
A42.9	Actinomycotic encephalitis	Diagnosis	ICD-10-CM
A43.0	Other forms of actinomycosis	Diagnosis	ICD-10-CM
A43.8	Actinomycosis, unspecified	Diagnosis	ICD-10-CM
A43.9	Pulmonary nocardiosis	Diagnosis	ICD-10-CM
A44.0	Cutaneous nocardiosis	Diagnosis	ICD-10-CM
A44.1	Other forms of nocardiosis	Diagnosis	ICD-10-CM
A44.8	Nocardiosis, unspecified	Diagnosis	ICD-10-CM
A44.9	Systemic bartonellosis	Diagnosis	ICD-10-CM
A46	Cutaneous and mucocutaneous bartonellosis	Diagnosis	ICD-10-CM
A48.0	Other forms of bartonellosis	Diagnosis	ICD-10-CM
A48.1	Bartonellosis, unspecified	Diagnosis	ICD-10-CM
A48.2	Erysipelas	Diagnosis	ICD-10-CM
A48.3	Gas gangrene	Diagnosis	ICD-10-CM
A48.4	Legionnaires' disease	Diagnosis	ICD-10-CM
A48.51	Nonpneumonic Legionnaires' disease [Pontiac fever]	Diagnosis	ICD-10-CM
A48.8	Toxic shock syndrome	Diagnosis	ICD-10-CM
A49.01	Brazilian purpuric fever	Diagnosis	ICD-10-CM
A49.02	Infant botulism	Diagnosis	ICD-10-CM
A49.02	Wound botulism	Diagnosis	ICD-10-CM
A49.2	Other specified bacterial diseases	Diagnosis	ICD-10-CM
A49.3	Methicillin suscep staph infection, unsp site	Diagnosis	ICD-10-CM
A49.8	Methicillin resis staph infection, unsp site	Diagnosis	ICD-10-CM
A49.9	Streptococcal infection, unspecified site	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A50.01	Hemophilus influenzae infection, unspecified site	Diagnosis	ICD-10-CM
A50.02	Mycoplasma infection, unspecified site	Diagnosis	ICD-10-CM
A50.03	Other bacterial infections of unspecified site	Diagnosis	ICD-10-CM
A50.04	Bacterial infection, unspecified	Diagnosis	ICD-10-CM
A50.05	Early congenital syphilitic oculoopathy	Diagnosis	ICD-10-CM
A50.06	Early congenital syphilitic osteochondropathy	Diagnosis	ICD-10-CM
A50.07	Early congenital syphilitic pharyngitis	Diagnosis	ICD-10-CM
A50.08	Early congenital syphilitic pneumonia	Diagnosis	ICD-10-CM
A50.09	Early congenital syphilitic rhinitis	Diagnosis	ICD-10-CM
A50.1	Early cutaneous congenital syphilis	Diagnosis	ICD-10-CM
A50.2	Early mucocutaneous congenital syphilis	Diagnosis	ICD-10-CM
A50.30	Early visceral congenital syphilis	Diagnosis	ICD-10-CM
A50.31	Other early congenital syphilis, symptomatic	Diagnosis	ICD-10-CM
A50.32	Early congenital syphilis, latent	Diagnosis	ICD-10-CM
A50.39	Early congenital syphilis, unspecified	Diagnosis	ICD-10-CM
A50.40	Late congenital syphilitic oculoopathy, unspecified	Diagnosis	ICD-10-CM
A50.41	Late congenital syphilitic interstitial keratitis	Diagnosis	ICD-10-CM
A50.42	Late congenital syphilitic chorioretinitis	Diagnosis	ICD-10-CM
A50.43	Other late congenital syphilitic oculoopathy	Diagnosis	ICD-10-CM
A50.44	Late congenital neurosyphilis, unspecified	Diagnosis	ICD-10-CM
A50.45	Late congenital syphilitic meningitis	Diagnosis	ICD-10-CM
A50.49	Late congenital syphilitic encephalitis	Diagnosis	ICD-10-CM
A50.49	Late congenital syphilitic polyneuropathy	Diagnosis	ICD-10-CM
A50.51	Late congenital syphilitic optic nerve atrophy	Diagnosis	ICD-10-CM
A50.52	Juvenile general paresis	Diagnosis	ICD-10-CM
A50.53	Other late congenital neurosyphilis	Diagnosis	ICD-10-CM
A50.54	Clutton's joints	Diagnosis	ICD-10-CM
A50.55	Hutchinson's teeth	Diagnosis	ICD-10-CM
A50.56	Hutchinson's triad	Diagnosis	ICD-10-CM
A50.57	Late congenital cardiovascular syphilis	Diagnosis	ICD-10-CM
A50.59	Late congenital syphilitic arthropathy	Diagnosis	ICD-10-CM
A50.6	Late congenital syphilitic osteochondropathy	Diagnosis	ICD-10-CM
A50.7	Syphilitic saddle nose	Diagnosis	ICD-10-CM
A50.9	Other late congenital syphilis, symptomatic	Diagnosis	ICD-10-CM
A51.0	Late congenital syphilis, latent	Diagnosis	ICD-10-CM
A51.31	Late congenital syphilis, unspecified	Diagnosis	ICD-10-CM
A51.32	Congenital syphilis, unspecified	Diagnosis	ICD-10-CM
A51.39	Primary genital syphilis	Diagnosis	ICD-10-CM
A51.41	Primary anal syphilis	Diagnosis	ICD-10-CM
A51.42	Primary syphilis of other sites	Diagnosis	ICD-10-CM
A51.43	Condyloma latum	Diagnosis	ICD-10-CM
A51.44	Syphilitic alopecia	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A51.45	Other secondary syphilis of skin	Diagnosis	ICD-10-CM
A51.46	Secondary syphilitic meningitis	Diagnosis	ICD-10-CM
A51.49	Secondary syphilitic female pelvic disease	Diagnosis	ICD-10-CM
A51.5	Secondary syphilitic ophthalmopathy	Diagnosis	ICD-10-CM
A51.9	Secondary syphilitic nephritis	Diagnosis	ICD-10-CM
A52.00	Secondary syphilitic hepatitis	Diagnosis	ICD-10-CM
A52.01	Secondary syphilitic osteopathy	Diagnosis	ICD-10-CM
A52.02	Other secondary syphilitic conditions	Diagnosis	ICD-10-CM
A52.03	Early syphilis, latent	Diagnosis	ICD-10-CM
A52.04	Early syphilis, unspecified	Diagnosis	ICD-10-CM
A52.05	Cardiovascular syphilis, unspecified	Diagnosis	ICD-10-CM
A52.05	Syphilitic aneurysm of aorta	Diagnosis	ICD-10-CM
A52.06	Syphilitic aortitis	Diagnosis	ICD-10-CM
A52.06	Syphilitic endocarditis	Diagnosis	ICD-10-CM
A52.09	Syphilitic cerebral arteritis	Diagnosis	ICD-10-CM
A52.10	Other cerebrovascular syphilis	Diagnosis	ICD-10-CM
A52.11	Other syphilitic heart involvement	Diagnosis	ICD-10-CM
A52.12	Other cardiovascular syphilis	Diagnosis	ICD-10-CM
A52.12	Symptomatic neurosyphilis, unspecified	Diagnosis	ICD-10-CM
A52.13	Tabes dorsalis	Diagnosis	ICD-10-CM
A52.13	Other cerebrospinal syphilis	Diagnosis	ICD-10-CM
A52.14	Late syphilitic meningitis	Diagnosis	ICD-10-CM
A52.15	Late syphilitic encephalitis	Diagnosis	ICD-10-CM
A52.16	Late syphilitic neuropathy	Diagnosis	ICD-10-CM
A52.16	Charcot's arthropathy (tabetic)	Diagnosis	ICD-10-CM
A52.17	General paresis	Diagnosis	ICD-10-CM
A52.19	Other symptomatic neurosyphilis	Diagnosis	ICD-10-CM
A52.2	Asymptomatic neurosyphilis	Diagnosis	ICD-10-CM
A52.3	Neurosyphilis, unspecified	Diagnosis	ICD-10-CM
A52.71	Late syphilitic ophthalmopathy	Diagnosis	ICD-10-CM
A52.71	Syphilis of lung and bronchus	Diagnosis	ICD-10-CM
A52.72	Symptomatic late syphilis of other respiratory organs	Diagnosis	ICD-10-CM
A52.73	Syphilis of liver and other viscera	Diagnosis	ICD-10-CM
A52.74	Syphilis of kidney and ureter	Diagnosis	ICD-10-CM
A52.77	Other genitourinary symptomatic late syphilis	Diagnosis	ICD-10-CM
A52.79	Syphilis of bone and joint	Diagnosis	ICD-10-CM
A52.79	Syphilis of other musculoskeletal tissue	Diagnosis	ICD-10-CM
A52.8	Other symptomatic late syphilis	Diagnosis	ICD-10-CM
A52.8	Late syphilis, latent	Diagnosis	ICD-10-CM
A52.9	Late syphilis, unspecified	Diagnosis	ICD-10-CM
A52.9	Latent syphilis, unspecified as early or late	Diagnosis	ICD-10-CM
A53.0	Syphilis, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A53.9	Gonococcal infection of lower genitourinary tract, unsp	Diagnosis	ICD-10-CM
A54.00	Gonococcal cystitis and urethritis, unspecified	Diagnosis	ICD-10-CM
A54.01	Gonococcal vulvovaginitis, unspecified	Diagnosis	ICD-10-CM
A54.02	Gonococcal cervicitis, unspecified	Diagnosis	ICD-10-CM
A54.03	Other gonococcal infection of lower genitourinary tract	Diagnosis	ICD-10-CM
A54.09	Gonocl infct of lower GU tract w periureth and acc gland abcs	Diagnosis	ICD-10-CM
A54.1	Gonococcal infection of kidney and ureter	Diagnosis	ICD-10-CM
A54.21	Gonococcal prostatitis	Diagnosis	ICD-10-CM
A54.22	Gonococcal infection of other male genital organs	Diagnosis	ICD-10-CM
A54.23	Gonococcal female pelvic inflammatory disease	Diagnosis	ICD-10-CM
A54.23	Other gonococcal genitourinary infections	Diagnosis	ICD-10-CM
A54.24	Gonococcal infection of eye, unspecified	Diagnosis	ICD-10-CM
A54.29	Gonococcal conjunctivitis	Diagnosis	ICD-10-CM
A54.30	Gonococcal iridocyclitis	Diagnosis	ICD-10-CM
A54.31	Gonococcal keratitis	Diagnosis	ICD-10-CM
A54.31	Other gonococcal eye infection	Diagnosis	ICD-10-CM
A54.32	Gonococcal infection of musculoskeletal system, unspecified	Diagnosis	ICD-10-CM
A54.33	Gonococcal spondylopathy	Diagnosis	ICD-10-CM
A54.40	Gonococcal arthritis	Diagnosis	ICD-10-CM
A54.41	Gonococcal osteomyelitis	Diagnosis	ICD-10-CM
A54.42	Gonococcal infection of other musculoskeletal tissue	Diagnosis	ICD-10-CM
A54.43	Gonococcal pharyngitis	Diagnosis	ICD-10-CM
A54.49	Gonococcal infection of anus and rectum	Diagnosis	ICD-10-CM
A54.5	Gonococcal meningitis	Diagnosis	ICD-10-CM
A54.6	Gonococcal brain abscess	Diagnosis	ICD-10-CM
A54.6	Gonococcal heart infection	Diagnosis	ICD-10-CM
A54.81	Gonococcal pneumonia	Diagnosis	ICD-10-CM
A54.81	Gonococcal peritonitis	Diagnosis	ICD-10-CM
A54.82	Gonococcal sepsis	Diagnosis	ICD-10-CM
A54.83	Other gonococcal infections	Diagnosis	ICD-10-CM
A54.83	Gonococcal infection, unspecified	Diagnosis	ICD-10-CM
A54.84	Chlamydial lymphogranuloma (venereum)	Diagnosis	ICD-10-CM
A54.85	Chlamydial infection of lower genitourinary tract, unsp	Diagnosis	ICD-10-CM
A54.85	Chlamydial cystitis and urethritis	Diagnosis	ICD-10-CM
A54.86	Chlamydial vulvovaginitis	Diagnosis	ICD-10-CM
A54.89	Other chlamydial infection of lower genitourinary tract	Diagnosis	ICD-10-CM
A54.89	Chlamydial female pelvic inflammatory disease	Diagnosis	ICD-10-CM
A54.9	Other chlamydial genitourinary infection	Diagnosis	ICD-10-CM
A55	Chlamydial infection of genitourinary tract, unspecified	Diagnosis	ICD-10-CM
A56.00	Chlamydial infection of anus and rectum	Diagnosis	ICD-10-CM
A56.00	Chlamydial infection of pharynx	Diagnosis	ICD-10-CM
A56.01	Sexually transmitted chlamydial infection of other sites	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A56.02	Chancroid	Diagnosis	ICD-10-CM
A56.11	Granuloma inguinale	Diagnosis	ICD-10-CM
A56.11	Urogenital trichomoniasis, unspecified	Diagnosis	ICD-10-CM
A56.2	Trichomonal vulvovaginitis	Diagnosis	ICD-10-CM
A56.3	Trichomonal prostatitis	Diagnosis	ICD-10-CM
A56.4	Trichomonal cystitis and urethritis	Diagnosis	ICD-10-CM
A56.8	Other urogenital trichomoniasis	Diagnosis	ICD-10-CM
A57	Trichomoniasis of other sites	Diagnosis	ICD-10-CM
A58	Trichomoniasis, unspecified	Diagnosis	ICD-10-CM
A59.00	Herpesviral infection of urogenital system, unspecified	Diagnosis	ICD-10-CM
A59.03	Herpesviral infection of penis	Diagnosis	ICD-10-CM
A59.09	Herpesviral infection of other male genital organs	Diagnosis	ICD-10-CM
A59.9	Herpesviral cervicitis	Diagnosis	ICD-10-CM
A60.00	Herpesviral vulvovaginitis	Diagnosis	ICD-10-CM
A60.01	Herpesviral infection of other urogenital tract	Diagnosis	ICD-10-CM
A60.02	Herpesviral infection of perianal skin and rectum	Diagnosis	ICD-10-CM
A60.03	Anogenital herpesviral infection, unspecified	Diagnosis	ICD-10-CM
A60.04	Anogenital (venereal) warts	Diagnosis	ICD-10-CM
A60.09	Other specified predominantly sexually transmitted diseases	Diagnosis	ICD-10-CM
A60.1	Unspecified sexually transmitted disease	Diagnosis	ICD-10-CM
A60.9	Nonvenereal syphilis	Diagnosis	ICD-10-CM
A60.9	Initial lesions of yaws	Diagnosis	ICD-10-CM
A63.0	Multiple papillomata and wet crab yaws	Diagnosis	ICD-10-CM
A63.8	Other early skin lesions of yaws	Diagnosis	ICD-10-CM
A64	Hyperkeratosis of yaws	Diagnosis	ICD-10-CM
A65	Gummata and ulcers of yaws	Diagnosis	ICD-10-CM
A66.0	Gangosa	Diagnosis	ICD-10-CM
A66.1	Bone and joint lesions of yaws	Diagnosis	ICD-10-CM
A66.2	Other manifestations of yaws	Diagnosis	ICD-10-CM
A66.3	Latent yaws	Diagnosis	ICD-10-CM
A66.4	Yaws, unspecified	Diagnosis	ICD-10-CM
A66.5	Primary lesions of pinta	Diagnosis	ICD-10-CM
A66.6	Intermediate lesions of pinta	Diagnosis	ICD-10-CM
A66.8	Late lesions of pinta	Diagnosis	ICD-10-CM
A66.9	Mixed lesions of pinta	Diagnosis	ICD-10-CM
A67.0	Pinta, unspecified	Diagnosis	ICD-10-CM
A67.1	Louse-borne relapsing fever	Diagnosis	ICD-10-CM
A67.2	Tick-borne relapsing fever	Diagnosis	ICD-10-CM
A67.3	Relapsing fever, unspecified	Diagnosis	ICD-10-CM
A67.9	Necrotizing ulcerative stomatitis	Diagnosis	ICD-10-CM
A68.0	Other Vincent's infections	Diagnosis	ICD-10-CM
A68.1	Lyme disease, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A69.0	Meningitis due to Lyme disease	Diagnosis	ICD-10-CM
A69.1	Other neurologic disorders in Lyme disease	Diagnosis	ICD-10-CM
A69.20	Arthritis due to Lyme disease	Diagnosis	ICD-10-CM
A69.21	Other conditions associated with Lyme disease	Diagnosis	ICD-10-CM
A69.21	Other specified spirochetal infections	Diagnosis	ICD-10-CM
A69.22	Spirochetal infection, unspecified	Diagnosis	ICD-10-CM
A69.23	Chlamydia psittaci infections	Diagnosis	ICD-10-CM
A69.29	Initial stage of trachoma	Diagnosis	ICD-10-CM
A69.8	Active stage of trachoma	Diagnosis	ICD-10-CM
A69.8	Trachoma, unspecified	Diagnosis	ICD-10-CM
A70	Chlamydial conjunctivitis	Diagnosis	ICD-10-CM
A71.0	Chlamydial peritonitis	Diagnosis	ICD-10-CM
A71.1	Other chlamydial diseases	Diagnosis	ICD-10-CM
A71.9	Chlamydial infection, unspecified	Diagnosis	ICD-10-CM
A74.0	Epidemic louse-borne typhus fever d/t Rickettsia prowazekii	Diagnosis	ICD-10-CM
A74.81	Recrudescence typhus [Brill's disease]	Diagnosis	ICD-10-CM
A74.89	Typhus fever due to Rickettsia typhi	Diagnosis	ICD-10-CM
A74.9	Typhus fever due to Rickettsia tsutsugamushi	Diagnosis	ICD-10-CM
A75.0	Typhus fever, unspecified	Diagnosis	ICD-10-CM
A75.1	Spotted fever due to Rickettsia rickettsii	Diagnosis	ICD-10-CM
A75.3	Spotted fever due to Rickettsia conorii	Diagnosis	ICD-10-CM
A75.9	Spotted fever due to Rickettsia siberica	Diagnosis	ICD-10-CM
A77.2	Spotted fever due to Rickettsia australis	Diagnosis	ICD-10-CM
A77.3	Ehrlichiosis, unspecified	Diagnosis	ICD-10-CM
A77.40	Ehrlichiosis chafeensis [E. chafeensis]	Diagnosis	ICD-10-CM
A77.41	Other ehrlichiosis	Diagnosis	ICD-10-CM
A77.8	Other spotted fevers	Diagnosis	ICD-10-CM
A77.9	Spotted fever, unspecified	Diagnosis	ICD-10-CM
A78	Q fever	Diagnosis	ICD-10-CM
A79.0	Trench fever	Diagnosis	ICD-10-CM
A79.1	Rickettsialpox due to Rickettsia akari	Diagnosis	ICD-10-CM
A79.89	Rickettsiosis due to Ehrlichia sennetsu	Diagnosis	ICD-10-CM
A79.9	Other specified rickettsioses	Diagnosis	ICD-10-CM
A80.1	Rickettsiosis, unspecified	Diagnosis	ICD-10-CM
A80.30	Acute paralytic poliomyelitis, vaccine-associated	Diagnosis	ICD-10-CM
A80.30	Acute paralytic poliomyelitis, wild virus, imported	Diagnosis	ICD-10-CM
A81.00	Acute paralytic poliomyelitis, wild virus, indigenous	Diagnosis	ICD-10-CM
A81.01	Acute paralytic poliomyelitis, unspecified	Diagnosis	ICD-10-CM
A81.09	Other acute paralytic poliomyelitis	Diagnosis	ICD-10-CM
A81.1	Acute nonparalytic poliomyelitis	Diagnosis	ICD-10-CM
A81.81	Acute poliomyelitis, unspecified	Diagnosis	ICD-10-CM
A81.82	Creutzfeldt-Jakob disease, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
A81.83	Variant Creutzfeldt-Jakob disease	Diagnosis	ICD-10-CM
A81.89	Other Creutzfeldt-Jakob disease	Diagnosis	ICD-10-CM
A81.89	Subacute sclerosing panencephalitis	Diagnosis	ICD-10-CM
A81.9	Progressive multifocal leukoencephalopathy	Diagnosis	ICD-10-CM
A82.0	Kuru	Diagnosis	ICD-10-CM
A82.1	Gerstmann-Straussler-Scheinker syndrome	Diagnosis	ICD-10-CM
A82.9	Fatal familial insomnia	Diagnosis	ICD-10-CM
A83.0	Other atypical virus infections of central nervous system	Diagnosis	ICD-10-CM
A83.1	Atypical virus infection of central nervous system, unsp	Diagnosis	ICD-10-CM
A83.2	Sylvatic rabies	Diagnosis	ICD-10-CM
A83.3	Urban rabies	Diagnosis	ICD-10-CM
A83.4	Rabies, unspecified	Diagnosis	ICD-10-CM
A83.5	Japanese encephalitis	Diagnosis	ICD-10-CM
A83.6	Western equine encephalitis	Diagnosis	ICD-10-CM
A83.8	Eastern equine encephalitis	Diagnosis	ICD-10-CM
A83.9	St Louis encephalitis	Diagnosis	ICD-10-CM
A84.0	Australian encephalitis	Diagnosis	ICD-10-CM
A84.1	California encephalitis	Diagnosis	ICD-10-CM
A84.8	Rocio virus disease	Diagnosis	ICD-10-CM
A84.8	Other mosquito-borne viral encephalitis	Diagnosis	ICD-10-CM
A85.0	Mosquito-borne viral encephalitis, unspecified	Diagnosis	ICD-10-CM
A85.1	Far Eastern tick-borne encephalitis	Diagnosis	ICD-10-CM
A85.1	Central European tick-borne encephalitis	Diagnosis	ICD-10-CM
A85.2	Other tick-borne viral encephalitis	Diagnosis	ICD-10-CM
A85.2	Tick-borne viral encephalitis, unspecified	Diagnosis	ICD-10-CM
A85.8	Enteroviral encephalitis	Diagnosis	ICD-10-CM
A86	Adenoviral encephalitis	Diagnosis	ICD-10-CM
A87.0	Arthropod-borne viral encephalitis, unspecified	Diagnosis	ICD-10-CM
A87.1	Other specified viral encephalitis	Diagnosis	ICD-10-CM
A87.2	Unspecified viral encephalitis	Diagnosis	ICD-10-CM
A87.2	Enteroviral meningitis	Diagnosis	ICD-10-CM
A87.8	Adenoviral meningitis	Diagnosis	ICD-10-CM
A87.9	Lymphocytic choriomeningitis	Diagnosis	ICD-10-CM
A88.0	Other viral meningitis	Diagnosis	ICD-10-CM
A88.1	Viral meningitis, unspecified	Diagnosis	ICD-10-CM
A88.1	Enteroviral exanthematous fever [Boston exanthem]	Diagnosis	ICD-10-CM
A88.8	Epidemic vertigo	Diagnosis	ICD-10-CM
A89	Other specified viral infections of central nervous system	Diagnosis	ICD-10-CM
A90	Unspecified viral infection of central nervous system	Diagnosis	ICD-10-CM
A92.0	Dengue fever [classical dengue]	Diagnosis	ICD-10-CM
A92.1	Dengue hemorrhagic fever	Diagnosis	ICD-10-CM
A92.2	Chikungunya virus disease	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
A92.32	O'nyong-nyong fever	Diagnosis	ICD-10-CM
A92.39	Venezuelan equine fever	Diagnosis	ICD-10-CM
A92.8	West Nile virus infection, unspecified	Diagnosis	ICD-10-CM
A92.8	West Nile virus infection with encephalitis	Diagnosis	ICD-10-CM
A92.9	West Nile virus infection with oth neurologic manifestation	Diagnosis	ICD-10-CM
A93.0	West Nile virus infection with other complications	Diagnosis	ICD-10-CM
A93.1	Rift Valley fever	Diagnosis	ICD-10-CM
A93.2	Zika virus disease	Diagnosis	ICD-10-CM
A93.8	Other specified mosquito-borne viral fevers	Diagnosis	ICD-10-CM
A93.8	Mosquito-borne viral fever, unspecified	Diagnosis	ICD-10-CM
A94	Oropouche virus disease	Diagnosis	ICD-10-CM
A95.0	Sandfly fever	Diagnosis	ICD-10-CM
A95.9	Colorado tick fever	Diagnosis	ICD-10-CM
A96.0	Other specified arthropod-borne viral fevers	Diagnosis	ICD-10-CM
A96.1	Unspecified arthropod-borne viral fever	Diagnosis	ICD-10-CM
A96.2	Sylvatic yellow fever	Diagnosis	ICD-10-CM
A96.8	Urban yellow fever	Diagnosis	ICD-10-CM
A96.9	Yellow fever, unspecified	Diagnosis	ICD-10-CM
A98.0	Junin hemorrhagic fever	Diagnosis	ICD-10-CM
A98.1	Machupo hemorrhagic fever	Diagnosis	ICD-10-CM
A98.2	Lassa fever	Diagnosis	ICD-10-CM
A98.3	Other arenaviral hemorrhagic fevers	Diagnosis	ICD-10-CM
A98.4	Arenaviral hemorrhagic fever, unspecified	Diagnosis	ICD-10-CM
A98.5	Crimean-Congo hemorrhagic fever	Diagnosis	ICD-10-CM
A98.8	Omsk hemorrhagic fever	Diagnosis	ICD-10-CM
A98.8	Kyasanur Forest disease	Diagnosis	ICD-10-CM
A99	Marburg virus disease	Diagnosis	ICD-10-CM
B00.0	Ebola virus disease	Diagnosis	ICD-10-CM
B00.1	Hemorrhagic fever with renal syndrome	Diagnosis	ICD-10-CM
B00.2	Other specified viral hemorrhagic fevers	Diagnosis	ICD-10-CM
B00.3	Unspecified viral hemorrhagic fever	Diagnosis	ICD-10-CM
B00.4	Eczema herpeticum	Diagnosis	ICD-10-CM
B00.50	Herpesviral vesicular dermatitis	Diagnosis	ICD-10-CM
B00.51	Herpesviral gingivostomatitis and pharyngotonsillitis	Diagnosis	ICD-10-CM
B00.52	Herpesviral meningitis	Diagnosis	ICD-10-CM
B00.53	Herpesviral encephalitis	Diagnosis	ICD-10-CM
B00.7	Herpesviral ocular disease, unspecified	Diagnosis	ICD-10-CM
B00.81	Herpesviral iridocyclitis	Diagnosis	ICD-10-CM
B00.82	Herpesviral keratitis	Diagnosis	ICD-10-CM
B00.89	Herpesviral conjunctivitis	Diagnosis	ICD-10-CM
B00.9	Other herpesviral disease of eye	Diagnosis	ICD-10-CM
B01.11	Disseminated herpesviral disease	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B01.12	Herpesviral hepatitis	Diagnosis	ICD-10-CM
B01.2	Herpes simplex myelitis	Diagnosis	ICD-10-CM
B01.81	Other herpesviral infection	Diagnosis	ICD-10-CM
B01.89	Herpesviral infection, unspecified	Diagnosis	ICD-10-CM
B01.9	Varicella meningitis	Diagnosis	ICD-10-CM
B02.0	Varicella encephalitis and encephalomyelitis	Diagnosis	ICD-10-CM
B02.1	Varicella myelitis	Diagnosis	ICD-10-CM
B02.23	Varicella pneumonia	Diagnosis	ICD-10-CM
B02.24	Varicella keratitis	Diagnosis	ICD-10-CM
B02.29	Other varicella complications	Diagnosis	ICD-10-CM
B02.30	Varicella without complication	Diagnosis	ICD-10-CM
B02.31	Zoster encephalitis	Diagnosis	ICD-10-CM
B02.32	Zoster meningitis	Diagnosis	ICD-10-CM
B02.33	Postherpetic geniculate ganglionitis	Diagnosis	ICD-10-CM
B02.34	Postherpetic trigeminal neuralgia	Diagnosis	ICD-10-CM
B02.39	Postherpetic polyneuropathy	Diagnosis	ICD-10-CM
B02.39	Postherpetic myelitis	Diagnosis	ICD-10-CM
B02.7	Other postherpetic nervous system involvement	Diagnosis	ICD-10-CM
B02.8	Zoster ocular disease, unspecified	Diagnosis	ICD-10-CM
B02.9	Zoster conjunctivitis	Diagnosis	ICD-10-CM
B03	Zoster iridocyclitis	Diagnosis	ICD-10-CM
B04	Zoster keratitis	Diagnosis	ICD-10-CM
B05.0	Zoster scleritis	Diagnosis	ICD-10-CM
B05.0	Other herpes zoster eye disease	Diagnosis	ICD-10-CM
B05.1	Disseminated zoster	Diagnosis	ICD-10-CM
B05.2	Zoster with other complications	Diagnosis	ICD-10-CM
B05.2	Zoster without complications	Diagnosis	ICD-10-CM
B05.3	Smallpox	Diagnosis	ICD-10-CM
B05.4	Monkeypox	Diagnosis	ICD-10-CM
B05.4	Measles complicated by encephalitis	Diagnosis	ICD-10-CM
B05.81	Measles complicated by meningitis	Diagnosis	ICD-10-CM
B05.89	Measles complicated by pneumonia	Diagnosis	ICD-10-CM
B05.89	Measles complicated by otitis media	Diagnosis	ICD-10-CM
B05.9	Measles with intestinal complications	Diagnosis	ICD-10-CM
B06.00	Measles keratitis and keratoconjunctivitis	Diagnosis	ICD-10-CM
B06.02	Other measles complications	Diagnosis	ICD-10-CM
B06.09	Measles without complication	Diagnosis	ICD-10-CM
B06.81	Rubella with neurological complication, unspecified	Diagnosis	ICD-10-CM
B06.82	Rubella encephalitis	Diagnosis	ICD-10-CM
B06.89	Rubella meningitis	Diagnosis	ICD-10-CM
B06.9	Other neurological complications of rubella	Diagnosis	ICD-10-CM
B07.0	Rubella pneumonia	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B07.8	Rubella arthritis	Diagnosis	ICD-10-CM
B07.8	Other rubella complications	Diagnosis	ICD-10-CM
B07.9	Rubella without complication	Diagnosis	ICD-10-CM
B08.010	Plantar wart	Diagnosis	ICD-10-CM
B08.011	Other viral warts	Diagnosis	ICD-10-CM
B08.02	Viral wart, unspecified	Diagnosis	ICD-10-CM
B08.04	Cowpox	Diagnosis	ICD-10-CM
B08.04	Vaccinia not from vaccine	Diagnosis	ICD-10-CM
B08.09	Orf virus disease	Diagnosis	ICD-10-CM
B08.1	Pseudocowpox [milker's node]	Diagnosis	ICD-10-CM
B08.1	Paravaccinia, unspecified	Diagnosis	ICD-10-CM
B08.20	Other orthopoxvirus infections	Diagnosis	ICD-10-CM
B08.21	Molluscum contagiosum	Diagnosis	ICD-10-CM
B08.21	Exanthema subitum [sixth disease], unspecified	Diagnosis	ICD-10-CM
B08.22	Exanthema subitum [sixth disease] due to human herpesvirus 6	Diagnosis	ICD-10-CM
B08.22	Exanthema subitum [sixth disease] due to human herpesvirus 7	Diagnosis	ICD-10-CM
B08.3	Erythema infectiosum [fifth disease]	Diagnosis	ICD-10-CM
B08.3	Enteroviral vesicular stomatitis with exanthem	Diagnosis	ICD-10-CM
B08.4	Enteroviral vesicular pharyngitis	Diagnosis	ICD-10-CM
B08.5	Parapoxvirus infection, unspecified	Diagnosis	ICD-10-CM
B08.5	Bovine stomatitis	Diagnosis	ICD-10-CM
B08.60	Sealpox	Diagnosis	ICD-10-CM
B08.61	Other parapoxvirus infections	Diagnosis	ICD-10-CM
B08.62	Yatapoxvirus infection, unspecified	Diagnosis	ICD-10-CM
B08.69	Tanapox virus disease	Diagnosis	ICD-10-CM
B08.70	Yaba pox virus disease	Diagnosis	ICD-10-CM
B08.71	Other yatapoxvirus infections	Diagnosis	ICD-10-CM
B08.72	Oth viral infections with skin and mucous membrane lesions	Diagnosis	ICD-10-CM
B08.79	Unsp viral infection with skin and mucous membrane lesions	Diagnosis	ICD-10-CM
B08.8	Human herpesvirus 6 encephalitis	Diagnosis	ICD-10-CM
B08.8	Other human herpesvirus encephalitis	Diagnosis	ICD-10-CM
B09	Human herpesvirus 6 infection	Diagnosis	ICD-10-CM
B10.01	Human herpesvirus 7 infection	Diagnosis	ICD-10-CM
B10.09	Other human herpesvirus infection	Diagnosis	ICD-10-CM
B10.81	Hepatitis A with hepatic coma	Diagnosis	ICD-10-CM
B10.82	Hepatitis A without hepatic coma	Diagnosis	ICD-10-CM
B10.89	Acute hepatitis B with delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B15.0	Acute hepatitis B with delta-agent without hepatic coma	Diagnosis	ICD-10-CM
B15.9	Acute hepatitis B without delta-agent with hepatic coma	Diagnosis	ICD-10-CM
B16.0	Acute hepatitis B w/o delta-agent and without hepatic coma	Diagnosis	ICD-10-CM
B16.1	Acute delta-(super) infection of hepatitis B carrier	Diagnosis	ICD-10-CM
B16.2	Acute hepatitis C without hepatic coma	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B16.9	Acute hepatitis C with hepatic coma	Diagnosis	ICD-10-CM
B17.0	Acute hepatitis E	Diagnosis	ICD-10-CM
B17.10	Other specified acute viral hepatitis	Diagnosis	ICD-10-CM
B17.10	Acute viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B17.11	Chronic viral hepatitis B with delta-agent	Diagnosis	ICD-10-CM
B17.2	Chronic viral hepatitis B without delta-agent	Diagnosis	ICD-10-CM
B17.8	Chronic viral hepatitis C	Diagnosis	ICD-10-CM
B17.9	Other chronic viral hepatitis	Diagnosis	ICD-10-CM
B17.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM
B18.0	Unspecified viral hepatitis with hepatic coma	Diagnosis	ICD-10-CM
B18.1	Unspecified viral hepatitis B without hepatic coma	Diagnosis	ICD-10-CM
B18.2	Unspecified viral hepatitis B with hepatic coma	Diagnosis	ICD-10-CM
B18.8	Unspecified viral hepatitis C without hepatic coma	Diagnosis	ICD-10-CM
B18.9	Unspecified viral hepatitis C with hepatic coma	Diagnosis	ICD-10-CM
B19.10	Unspecified viral hepatitis without hepatic coma	Diagnosis	ICD-10-CM
B19.20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
B19.21	Cytomegaloviral pneumonitis	Diagnosis	ICD-10-CM
B19.9	Cytomegaloviral hepatitis	Diagnosis	ICD-10-CM
B20	Cytomegaloviral pancreatitis	Diagnosis	ICD-10-CM
B25.0	Other cytomegaloviral diseases	Diagnosis	ICD-10-CM
B25.1	Cytomegaloviral disease, unspecified	Diagnosis	ICD-10-CM
B25.2	Mumps orchitis	Diagnosis	ICD-10-CM
B25.8	Mumps meningitis	Diagnosis	ICD-10-CM
B25.9	Mumps encephalitis	Diagnosis	ICD-10-CM
B26.0	Mumps pancreatitis	Diagnosis	ICD-10-CM
B26.1	Mumps hepatitis	Diagnosis	ICD-10-CM
B26.1	Mumps myocarditis	Diagnosis	ICD-10-CM
B26.2	Mumps nephritis	Diagnosis	ICD-10-CM
B26.2	Mumps polyneuropathy	Diagnosis	ICD-10-CM
B26.3	Mumps arthritis	Diagnosis	ICD-10-CM
B26.81	Other mumps complications	Diagnosis	ICD-10-CM
B26.82	Mumps without complication	Diagnosis	ICD-10-CM
B26.83	Gammaherpesviral mononucleosis without complication	Diagnosis	ICD-10-CM
B26.84	Gammaherpesviral mononucleosis with polyneuropathy	Diagnosis	ICD-10-CM
B26.85	Gammaherpesviral mononucleosis with meningitis	Diagnosis	ICD-10-CM
B26.85	Gammaherpesviral mononucleosis with other complications	Diagnosis	ICD-10-CM
B26.89	Cytomegaloviral mononucleosis without complications	Diagnosis	ICD-10-CM
B26.89	Cytomegaloviral mononucleosis with polyneuropathy	Diagnosis	ICD-10-CM
B26.9	Cytomegaloviral mononucleosis with meningitis	Diagnosis	ICD-10-CM
B27.00	Cytomegaloviral mononucleosis with other complication	Diagnosis	ICD-10-CM
B27.01	Other infectious mononucleosis without complication	Diagnosis	ICD-10-CM
B27.02	Other infectious mononucleosis with polyneuropathy	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B27.02	Other infectious mononucleosis with meningitis	Diagnosis	ICD-10-CM
B27.09	Other infectious mononucleosis with other complication	Diagnosis	ICD-10-CM
B27.09	Infectious mononucleosis, unspecified without complication	Diagnosis	ICD-10-CM
B27.10	Infectious mononucleosis, unspecified with polyneuropathy	Diagnosis	ICD-10-CM
B27.11	Infectious mononucleosis, unspecified with meningitis	Diagnosis	ICD-10-CM
B27.12	Infectious mononucleosis, unsp with other complication	Diagnosis	ICD-10-CM
B27.19	Keratoconjunctivitis due to adenovirus	Diagnosis	ICD-10-CM
B27.80	Conjunctivitis due to adenovirus	Diagnosis	ICD-10-CM
B27.81	Viral pharyngoconjunctivitis	Diagnosis	ICD-10-CM
B27.82	Acute epidemic hemorrhagic conjunctivitis (enteroviral)	Diagnosis	ICD-10-CM
B27.89	Other viral conjunctivitis	Diagnosis	ICD-10-CM
B27.90	Viral conjunctivitis, unspecified	Diagnosis	ICD-10-CM
B27.91	Epidemic myalgia	Diagnosis	ICD-10-CM
B27.92	Ross River disease	Diagnosis	ICD-10-CM
B27.99	Viral carditis, unspecified	Diagnosis	ICD-10-CM
B30.0	Viral endocarditis	Diagnosis	ICD-10-CM
B30.1	Viral myocarditis	Diagnosis	ICD-10-CM
B30.2	Viral pericarditis	Diagnosis	ICD-10-CM
B30.3	Viral cardiomyopathy	Diagnosis	ICD-10-CM
B30.8	Retrovirus infections, not elsewhere classified	Diagnosis	ICD-10-CM
B33.0	Hantavirus (cardio)-pulmonary syndrome [HPS] [HCPS]	Diagnosis	ICD-10-CM
B33.20	Other specified viral diseases	Diagnosis	ICD-10-CM
B33.21	Adenovirus infection, unspecified	Diagnosis	ICD-10-CM
B33.22	Enterovirus infection, unspecified	Diagnosis	ICD-10-CM
B33.3	Coronavirus infection, unspecified	Diagnosis	ICD-10-CM
B33.4	Parvovirus infection, unspecified	Diagnosis	ICD-10-CM
B33.8	Papovavirus infection, unspecified	Diagnosis	ICD-10-CM
B33.8	Other viral infections of unspecified site	Diagnosis	ICD-10-CM
B34.0	Viral infection, unspecified	Diagnosis	ICD-10-CM
B34.1	Tinea barbae and tinea capitis	Diagnosis	ICD-10-CM
B34.2	Tinea unguium	Diagnosis	ICD-10-CM
B34.3	Tinea manuum	Diagnosis	ICD-10-CM
B34.4	Tinea pedis	Diagnosis	ICD-10-CM
B34.4	Tinea corporis	Diagnosis	ICD-10-CM
B34.8	Tinea imbricata	Diagnosis	ICD-10-CM
B34.8	Tinea cruris	Diagnosis	ICD-10-CM
B34.9	Other dermatophytoses	Diagnosis	ICD-10-CM
B35.0	Dermatophytosis, unspecified	Diagnosis	ICD-10-CM
B35.3	Pityriasis versicolor	Diagnosis	ICD-10-CM
B35.5	Tinea nigra	Diagnosis	ICD-10-CM
B35.6	White piedra	Diagnosis	ICD-10-CM
B35.8	Black piedra	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B35.9	Other specified superficial mycoses	Diagnosis	ICD-10-CM
B36.0	Superficial mycosis, unspecified	Diagnosis	ICD-10-CM
B36.1	Candidal stomatitis	Diagnosis	ICD-10-CM
B36.2	Pulmonary candidiasis	Diagnosis	ICD-10-CM
B36.3	Candidiasis of skin and nail	Diagnosis	ICD-10-CM
B36.8	Candidiasis of vulva and vagina	Diagnosis	ICD-10-CM
B36.9	Candidal cystitis and urethritis	Diagnosis	ICD-10-CM
B37.0	Candidal balanitis	Diagnosis	ICD-10-CM
B37.2	Other urogenital candidiasis	Diagnosis	ICD-10-CM
B37.3	Candidal meningitis	Diagnosis	ICD-10-CM
B37.41	Candidal endocarditis	Diagnosis	ICD-10-CM
B37.42	Candidal sepsis	Diagnosis	ICD-10-CM
B37.49	Candidal esophagitis	Diagnosis	ICD-10-CM
B37.5	Candidal enteritis	Diagnosis	ICD-10-CM
B37.6	Candidal cheilitis	Diagnosis	ICD-10-CM
B37.7	Candidal otitis externa	Diagnosis	ICD-10-CM
B37.81	Other sites of candidiasis	Diagnosis	ICD-10-CM
B37.82	Candidiasis, unspecified	Diagnosis	ICD-10-CM
B37.83	Acute pulmonary coccidioidomycosis	Diagnosis	ICD-10-CM
B37.84	Chronic pulmonary coccidioidomycosis	Diagnosis	ICD-10-CM
B37.89	Pulmonary coccidioidomycosis, unspecified	Diagnosis	ICD-10-CM
B37.9	Cutaneous coccidioidomycosis	Diagnosis	ICD-10-CM
B38.0	Coccidioidomycosis meningitis	Diagnosis	ICD-10-CM
B38.1	Disseminated coccidioidomycosis	Diagnosis	ICD-10-CM
B38.2	Prostatic coccidioidomycosis	Diagnosis	ICD-10-CM
B38.3	Other forms of coccidioidomycosis	Diagnosis	ICD-10-CM
B38.4	Coccidioidomycosis, unspecified	Diagnosis	ICD-10-CM
B38.7	Acute pulmonary histoplasmosis capsulati	Diagnosis	ICD-10-CM
B38.9	Chronic pulmonary histoplasmosis capsulati	Diagnosis	ICD-10-CM
B39.0	Pulmonary histoplasmosis capsulati, unspecified	Diagnosis	ICD-10-CM
B39.1	Disseminated histoplasmosis capsulati	Diagnosis	ICD-10-CM
B39.2	Histoplasmosis capsulati, unspecified	Diagnosis	ICD-10-CM
B39.3	Histoplasmosis duboisii	Diagnosis	ICD-10-CM
B39.4	Histoplasmosis, unspecified	Diagnosis	ICD-10-CM
B39.5	Acute pulmonary blastomycosis	Diagnosis	ICD-10-CM
B39.9	Chronic pulmonary blastomycosis	Diagnosis	ICD-10-CM
B40.0	Pulmonary blastomycosis, unspecified	Diagnosis	ICD-10-CM
B40.1	Cutaneous blastomycosis	Diagnosis	ICD-10-CM
B40.2	Disseminated blastomycosis	Diagnosis	ICD-10-CM
B40.3	Blastomycotic meningoencephalitis	Diagnosis	ICD-10-CM
B40.7	Other forms of blastomycosis	Diagnosis	ICD-10-CM
B40.81	Blastomycosis, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B40.89	Pulmonary paracoccidioidomycosis	Diagnosis	ICD-10-CM
B40.9	Disseminated paracoccidioidomycosis	Diagnosis	ICD-10-CM
B41.0	Other forms of paracoccidioidomycosis	Diagnosis	ICD-10-CM
B41.7	Paracoccidioidomycosis, unspecified	Diagnosis	ICD-10-CM
B41.9	Pulmonary sporotrichosis	Diagnosis	ICD-10-CM
B42.1	Lymphocutaneous sporotrichosis	Diagnosis	ICD-10-CM
B42.7	Disseminated sporotrichosis	Diagnosis	ICD-10-CM
B42.81	Cerebral sporotrichosis	Diagnosis	ICD-10-CM
B42.89	Sporotrichosis arthritis	Diagnosis	ICD-10-CM
B42.9	Other forms of sporotrichosis	Diagnosis	ICD-10-CM
B43.1	Sporotrichosis, unspecified	Diagnosis	ICD-10-CM
B43.1	Cutaneous chromomycosis	Diagnosis	ICD-10-CM
B43.2	Pheomycotic brain abscess	Diagnosis	ICD-10-CM
B43.8	Subcutaneous pheomycotic abscess and cyst	Diagnosis	ICD-10-CM
B43.9	Other forms of chromomycosis	Diagnosis	ICD-10-CM
B44.0	Chromomycosis, unspecified	Diagnosis	ICD-10-CM
B44.1	Invasive pulmonary aspergillosis	Diagnosis	ICD-10-CM
B44.1	Other pulmonary aspergillosis	Diagnosis	ICD-10-CM
B44.2	Tonsillar aspergillosis	Diagnosis	ICD-10-CM
B44.7	Disseminated aspergillosis	Diagnosis	ICD-10-CM
B44.81	Allergic bronchopulmonary aspergillosis	Diagnosis	ICD-10-CM
B44.89	Other forms of aspergillosis	Diagnosis	ICD-10-CM
B44.9	Aspergillosis, unspecified	Diagnosis	ICD-10-CM
B45.0	Pulmonary cryptococcosis	Diagnosis	ICD-10-CM
B45.1	Cerebral cryptococcosis	Diagnosis	ICD-10-CM
B45.3	Cutaneous cryptococcosis	Diagnosis	ICD-10-CM
B45.7	Osseous cryptococcosis	Diagnosis	ICD-10-CM
B45.8	Disseminated cryptococcosis	Diagnosis	ICD-10-CM
B45.9	Other forms of cryptococcosis	Diagnosis	ICD-10-CM
B46.0	Cryptococcosis, unspecified	Diagnosis	ICD-10-CM
B46.2	Pulmonary mucormycosis	Diagnosis	ICD-10-CM
B46.3	Rhinocerebral mucormycosis	Diagnosis	ICD-10-CM
B46.4	Gastrointestinal mucormycosis	Diagnosis	ICD-10-CM
B46.5	Cutaneous mucormycosis	Diagnosis	ICD-10-CM
B46.5	Disseminated mucormycosis	Diagnosis	ICD-10-CM
B46.8	Mucormycosis, unspecified	Diagnosis	ICD-10-CM
B46.9	Other zygomycoses	Diagnosis	ICD-10-CM
B47.0	Zygomycosis, unspecified	Diagnosis	ICD-10-CM
B47.9	Eumycetoma	Diagnosis	ICD-10-CM
B47.9	Actinomycetoma	Diagnosis	ICD-10-CM
B48.0	Mycetoma, unspecified	Diagnosis	ICD-10-CM
B48.1	Lobomycosis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
B48.2	Rhinosporidiosis	Diagnosis	ICD-10-CM
B48.3	Allescheriasis	Diagnosis	ICD-10-CM
B48.4	Geotrichosis	Diagnosis	ICD-10-CM
B48.8	Penicillosis	Diagnosis	ICD-10-CM
B48.8	Other specified mycoses	Diagnosis	ICD-10-CM
B49	Unspecified mycosis	Diagnosis	ICD-10-CM
B50.0	Plasmodium falciparum malaria with cerebral complications	Diagnosis	ICD-10-CM
B50.8	Other severe and complicated Plasmodium falciparum malaria	Diagnosis	ICD-10-CM
B50.9	Plasmodium falciparum malaria, unspecified	Diagnosis	ICD-10-CM
B51.0	Plasmodium vivax malaria with rupture of spleen	Diagnosis	ICD-10-CM
B51.8	Plasmodium vivax malaria with other complications	Diagnosis	ICD-10-CM
B51.9	Plasmodium vivax malaria without complication	Diagnosis	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	Diagnosis	ICD-10-CM
B52.8	Plasmodium malariae malaria with other complications	Diagnosis	ICD-10-CM
B52.9	Plasmodium malariae malaria without complication	Diagnosis	ICD-10-CM
B53.0	Plasmodium ovale malaria	Diagnosis	ICD-10-CM
B53.1	Malaria due to simian plasmodia	Diagnosis	ICD-10-CM
B53.1	Other malaria, not elsewhere classified	Diagnosis	ICD-10-CM
B53.8	Unspecified malaria	Diagnosis	ICD-10-CM
B54	Visceral leishmaniasis	Diagnosis	ICD-10-CM
B55.1	Cutaneous leishmaniasis	Diagnosis	ICD-10-CM
B55.2	Mucocutaneous leishmaniasis	Diagnosis	ICD-10-CM
B55.2	Leishmaniasis, unspecified	Diagnosis	ICD-10-CM
B55.9	Gambiense trypanosomiasis	Diagnosis	ICD-10-CM
B56.0	Rhodesiense trypanosomiasis	Diagnosis	ICD-10-CM
B56.1	African trypanosomiasis, unspecified	Diagnosis	ICD-10-CM
B56.9	Acute Chagas' disease with heart involvement	Diagnosis	ICD-10-CM
B57.0	Acute Chagas' disease without heart involvement	Diagnosis	ICD-10-CM
B57.2	Chagas' disease (chronic) with heart involvement	Diagnosis	ICD-10-CM
B57.30	Chagas' disease with digestive system involvement, unsp	Diagnosis	ICD-10-CM
B57.31	Megaesophagus in Chagas' disease	Diagnosis	ICD-10-CM
B57.32	Megacolon in Chagas' disease	Diagnosis	ICD-10-CM
B57.39	Other digestive system involvement in Chagas' disease	Diagnosis	ICD-10-CM
B57.40	Chagas' disease with nervous system involvement, unspecified	Diagnosis	ICD-10-CM
B57.41	Meningitis in Chagas' disease	Diagnosis	ICD-10-CM
B57.41	Meningoencephalitis in Chagas' disease	Diagnosis	ICD-10-CM
B57.42	Other nervous system involvement in Chagas' disease	Diagnosis	ICD-10-CM
B57.49	Chagas' disease (chronic) with other organ involvement	Diagnosis	ICD-10-CM
B57.5	Toxoplasma oculopathy, unspecified	Diagnosis	ICD-10-CM
B58.00	Toxoplasma chorioretinitis	Diagnosis	ICD-10-CM
B58.01	Other toxoplasma oculopathy	Diagnosis	ICD-10-CM
B58.09	Toxoplasma hepatitis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B58.1	Toxoplasma meningoencephalitis	Diagnosis	ICD-10-CM
B58.2	Pulmonary toxoplasmosis	Diagnosis	ICD-10-CM
B58.3	Toxoplasma myocarditis	Diagnosis	ICD-10-CM
B58.82	Toxoplasma myositis	Diagnosis	ICD-10-CM
B58.83	Toxoplasma tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
B58.9	Toxoplasmosis with other organ involvement	Diagnosis	ICD-10-CM
B59	Toxoplasmosis, unspecified	Diagnosis	ICD-10-CM
B60.0	Pneumocystosis	Diagnosis	ICD-10-CM
B60.10	Babesiosis	Diagnosis	ICD-10-CM
B60.11	Acanthamebiasis, unspecified	Diagnosis	ICD-10-CM
B60.11	Meningoencephalitis due to Acanthamoeba (culbertsoni)	Diagnosis	ICD-10-CM
B60.12	Conjunctivitis due to Acanthamoeba	Diagnosis	ICD-10-CM
B60.13	Keratoconjunctivitis due to Acanthamoeba	Diagnosis	ICD-10-CM
B60.19	Other acanthamebic disease	Diagnosis	ICD-10-CM
B60.2	Naegleriasis	Diagnosis	ICD-10-CM
B60.8	Other specified protozoal diseases	Diagnosis	ICD-10-CM
B60.8	Unspecified protozoal disease	Diagnosis	ICD-10-CM
B64	Schistosomiasis due to Schistosoma haematobium	Diagnosis	ICD-10-CM
B65.0	Schistosomiasis due to Schistosoma mansoni	Diagnosis	ICD-10-CM
B65.1	Schistosomiasis due to Schistosoma japonicum	Diagnosis	ICD-10-CM
B65.2	Cercarial dermatitis	Diagnosis	ICD-10-CM
B65.3	Other schistosomiasis	Diagnosis	ICD-10-CM
B65.8	Schistosomiasis, unspecified	Diagnosis	ICD-10-CM
B65.9	Opisthorchiasis	Diagnosis	ICD-10-CM
B66.0	Clonorchiasis	Diagnosis	ICD-10-CM
B66.1	Dicrocoeliasis	Diagnosis	ICD-10-CM
B66.2	Fascioliasis	Diagnosis	ICD-10-CM
B66.3	Paragonimiasis	Diagnosis	ICD-10-CM
B66.4	Fasciolopsiasis	Diagnosis	ICD-10-CM
B66.5	Other specified fluke infections	Diagnosis	ICD-10-CM
B66.5	Fluke infection, unspecified	Diagnosis	ICD-10-CM
B66.8	Echinococcus granulosus infection of liver	Diagnosis	ICD-10-CM
B66.8	Echinococcus granulosus infection of lung	Diagnosis	ICD-10-CM
B66.9	Echinococcus granulosus infection of bone	Diagnosis	ICD-10-CM
B67.0	Echinococcus granulosus infection, thyroid gland	Diagnosis	ICD-10-CM
B67.1	Echinococcus granulosus infection, multiple sites	Diagnosis	ICD-10-CM
B67.2	Echinococcus granulosus infection, other sites	Diagnosis	ICD-10-CM
B67.31	Echinococcus granulosus infection, unspecified	Diagnosis	ICD-10-CM
B67.32	Echinococcus multilocularis infection of liver	Diagnosis	ICD-10-CM
B67.39	Echinococcus multilocularis infection, multiple sites	Diagnosis	ICD-10-CM
B67.4	Echinococcus multilocularis infection, other sites	Diagnosis	ICD-10-CM
B67.5	Echinococcus multilocularis infection, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B67.61	Echinococcosis, unspecified, of liver	Diagnosis	ICD-10-CM
B67.69	Echinococcosis, unspecified	Diagnosis	ICD-10-CM
B67.7	Other echinococcosis	Diagnosis	ICD-10-CM
B67.8	Taenia solium taeniasis	Diagnosis	ICD-10-CM
B67.90	Taenia saginata taeniasis	Diagnosis	ICD-10-CM
B67.99	Taeniasis, unspecified	Diagnosis	ICD-10-CM
B68.0	Cysticercosis of central nervous system	Diagnosis	ICD-10-CM
B69.0	Cysticercosis of eye	Diagnosis	ICD-10-CM
B69.1	Myositis in cysticercosis	Diagnosis	ICD-10-CM
B69.81	Cysticercosis of other sites	Diagnosis	ICD-10-CM
B69.81	Cysticercosis, unspecified	Diagnosis	ICD-10-CM
B69.89	Diphyllobothriasis	Diagnosis	ICD-10-CM
B69.9	Sparganosis	Diagnosis	ICD-10-CM
B70.0	Hymenolepiasis	Diagnosis	ICD-10-CM
B70.1	Dipylidiasis	Diagnosis	ICD-10-CM
B71.0	Other specified cestode infections	Diagnosis	ICD-10-CM
B71.1	Cestode infection, unspecified	Diagnosis	ICD-10-CM
B71.8	Dracunculiasis	Diagnosis	ICD-10-CM
B71.9	Onchocerciasis with eye involvement, unspecified	Diagnosis	ICD-10-CM
B72	Onchocerciasis with endophthalmitis	Diagnosis	ICD-10-CM
B73.00	Onchocerciasis with glaucoma	Diagnosis	ICD-10-CM
B73.01	Onchocerciasis with other eye involvement	Diagnosis	ICD-10-CM
B73.02	Onchocerciasis without eye disease	Diagnosis	ICD-10-CM
B73.09	Filariasis due to Wuchereria bancrofti	Diagnosis	ICD-10-CM
B73.1	Filariasis due to Brugia malayi	Diagnosis	ICD-10-CM
B74.0	Filariasis due to Brugia timori	Diagnosis	ICD-10-CM
B74.1	Loiasis	Diagnosis	ICD-10-CM
B74.2	Mansonelliasis	Diagnosis	ICD-10-CM
B74.3	Other filariases	Diagnosis	ICD-10-CM
B74.4	Filariasis, unspecified	Diagnosis	ICD-10-CM
B74.9	Trichinellosis	Diagnosis	ICD-10-CM
B76.0	Ancylostomiasis	Diagnosis	ICD-10-CM
B76.0	Necatoriasis	Diagnosis	ICD-10-CM
B76.1	Other hookworm diseases	Diagnosis	ICD-10-CM
B76.1	Hookworm disease, unspecified	Diagnosis	ICD-10-CM
B76.8	Ascariasis with intestinal complications	Diagnosis	ICD-10-CM
B76.8	Ascariasis pneumonia	Diagnosis	ICD-10-CM
B76.9	Ascariasis with other complications	Diagnosis	ICD-10-CM
B77.0	Ascariasis, unspecified	Diagnosis	ICD-10-CM
B77.0	Intestinal strongyloidiasis	Diagnosis	ICD-10-CM
B77.81	Cutaneous strongyloidiasis	Diagnosis	ICD-10-CM
B77.89	Disseminated strongyloidiasis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B77.9	Strongyloidiasis, unspecified	Diagnosis	ICD-10-CM
B77.9	Trichuriasis	Diagnosis	ICD-10-CM
B78.0	Enterobiasis	Diagnosis	ICD-10-CM
B78.1	Anisakiasis	Diagnosis	ICD-10-CM
B78.7	Intestinal capillariasis	Diagnosis	ICD-10-CM
B78.9	Trichostrongyliasis	Diagnosis	ICD-10-CM
B80	Intestinal angiostrongyliasis	Diagnosis	ICD-10-CM
B81.0	Mixed intestinal helminthiasis	Diagnosis	ICD-10-CM
B81.1	Other specified intestinal helminthiasis	Diagnosis	ICD-10-CM
B81.2	Intestinal helminthiasis, unspecified	Diagnosis	ICD-10-CM
B81.3	Intestinal parasitism, unspecified	Diagnosis	ICD-10-CM
B81.4	Visceral larva migrans	Diagnosis	ICD-10-CM
B81.8	Gnathostomiasis	Diagnosis	ICD-10-CM
B82.0	Angiostrongyliasis due to <i>Parastrongylus cantonensis</i>	Diagnosis	ICD-10-CM
B82.9	Syngamiasis	Diagnosis	ICD-10-CM
B83.0	Internal hirudiniasis	Diagnosis	ICD-10-CM
B83.1	Other specified helminthiasis	Diagnosis	ICD-10-CM
B83.2	Helminthiasis, unspecified	Diagnosis	ICD-10-CM
B83.3	Pediculosis due to <i>Pediculus humanus capitis</i>	Diagnosis	ICD-10-CM
B83.4	Pediculosis due to <i>Pediculus humanus corporis</i>	Diagnosis	ICD-10-CM
B83.8	Pediculosis, unspecified	Diagnosis	ICD-10-CM
B83.9	Phthiriasis	Diagnosis	ICD-10-CM
B85.0	Mixed pediculosis and phthiriasis	Diagnosis	ICD-10-CM
B85.0	Scabies	Diagnosis	ICD-10-CM
B85.1	Cutaneous myiasis	Diagnosis	ICD-10-CM
B85.2	Wound myiasis	Diagnosis	ICD-10-CM
B85.3	Ocular myiasis	Diagnosis	ICD-10-CM
B85.4	Nasopharyngeal myiasis	Diagnosis	ICD-10-CM
B86	Aural myiasis	Diagnosis	ICD-10-CM
B87.0	Genitourinary myiasis	Diagnosis	ICD-10-CM
B87.1	Intestinal myiasis	Diagnosis	ICD-10-CM
B87.2	Myiasis of other sites	Diagnosis	ICD-10-CM
B87.3	Myiasis, unspecified	Diagnosis	ICD-10-CM
B87.4	Other acariasis	Diagnosis	ICD-10-CM
B87.81	Tungiasis [sandflea infestation]	Diagnosis	ICD-10-CM
B87.82	Other arthropod infestations	Diagnosis	ICD-10-CM
B87.89	External hirudiniasis	Diagnosis	ICD-10-CM
B87.9	Other specified infestations	Diagnosis	ICD-10-CM
B88.0	Infestation, unspecified	Diagnosis	ICD-10-CM
B88.0	Unspecified parasitic disease	Diagnosis	ICD-10-CM
B88.1	Sequelae of central nervous system tuberculosis	Diagnosis	ICD-10-CM
B88.3	Sequelae of genitourinary tuberculosis	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B88.3	Sequelae of tuberculosis of bones and joints	Diagnosis	ICD-10-CM
B88.8	Sequelae of tuberculosis of other organs	Diagnosis	ICD-10-CM
B88.9	Sequelae of respiratory and unspecified tuberculosis	Diagnosis	ICD-10-CM
B90.0	Sequelae of poliomyelitis	Diagnosis	ICD-10-CM
B90.1	Sequelae of leprosy	Diagnosis	ICD-10-CM
B90.2	Sequelae of trachoma	Diagnosis	ICD-10-CM
B90.8	Sequelae of viral encephalitis	Diagnosis	ICD-10-CM
B90.9	Sequelae of viral hepatitis	Diagnosis	ICD-10-CM
B91	Sequelae of oth infectious and parasitic diseases	Diagnosis	ICD-10-CM
B92	Sequelae of unspecified infectious and parasitic disease	Diagnosis	ICD-10-CM
B94.0	Streptococcus, group A, causing diseases classd elswhr	Diagnosis	ICD-10-CM
B94.1	Streptococcus, group B, causing diseases classd elswhr	Diagnosis	ICD-10-CM
B94.8	Enterococcus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B94.9	Streptococcus pneumoniae causing diseases classd elswhr	Diagnosis	ICD-10-CM
B95.0	Oth streptococcus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.1	Unsp streptococcus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.2	Methicillin suscep staph infct causing dis classd elswhr	Diagnosis	ICD-10-CM
B95.3	Methicillin resis staph infct causing diseases classd elswhr	Diagnosis	ICD-10-CM
B95.4	Oth staphylococcus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.5	Unsp staphylococcus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.61	Mycoplasma pneumoniae as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.61	Klebsiella pneumoniae as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.62	Unsp Escherichia coli as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B95.7	Shiga toxin E coli (STEC) O157 causing dis classd elswhr	Diagnosis	ICD-10-CM
B95.8	Oth shiga toxin E coli (STEC) causing diseases classd elswhr	Diagnosis	ICD-10-CM
B96.0	Unsp shiga toxin E coli (STEC) causing dis classd elswhr	Diagnosis	ICD-10-CM
B96.0	Oth Escherichia coli as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.1	Hemophilus influenzae as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.21	Proteus (mirabilis) (morganii) causing dis classd elswhr	Diagnosis	ICD-10-CM
B96.22	Pseudomonas (mallei) causing diseases classd elswhr	Diagnosis	ICD-10-CM
B96.22	Bacteroides fragilis as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.23	Clostridium perfringens causing diseases classd elswhr	Diagnosis	ICD-10-CM
B96.29	Helicobacter pylori as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.29	Vibrio vulnificus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.3	Oth bacterial agents as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.4	Adenovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B96.6	Unsp enterovirus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.7	Coxsackievirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B96.81	Echovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B96.82	Oth enterovirus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B96.89	SARS-associated coronavirus causing diseases classd elswhr	Diagnosis	ICD-10-CM
B97.0	Oth coronavirus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
B97.10	Unsp retrovirus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B97.11	Lentivirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.12	Oncovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.19	HTLV-I as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.19	HTLV-II as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.29	HIV 2 as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.29	Oth retrovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.30	Respiratory syncytial virus causing diseases classd elswhr	Diagnosis	ICD-10-CM
B97.31	Reovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.32	Parvovirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.33	Papillomavirus as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B97.34	Human metapneumovirus as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B97.35	Oth viral agents as the cause of diseases classd elswhr	Diagnosis	ICD-10-CM
B97.39	Other infectious disease	Diagnosis	ICD-10-CM
B97.4	Unspecified infectious disease	Diagnosis	ICD-10-CM
B97.5	Abscess of spleen	Diagnosis	ICD-10-CM
B97.6	Bacterial meningitis, not elsewhere classified	Diagnosis	ICD-10-CM
B97.7	Hemophilus meningitis	Diagnosis	ICD-10-CM
B97.81	Pneumococcal meningitis	Diagnosis	ICD-10-CM
B97.89	Streptococcal meningitis	Diagnosis	ICD-10-CM
B99.8	Staphylococcal meningitis	Diagnosis	ICD-10-CM
D73.3	Other bacterial meningitis	Diagnosis	ICD-10-CM
G00	Bacterial meningitis, unspecified	Diagnosis	ICD-10-CM
G00.0	Meningitis in bacterial diseases classified elsewhere	Diagnosis	ICD-10-CM
G00.2	Meningitis in oth infec/parastc diseases classd elswhr	Diagnosis	ICD-10-CM
G00.3	Meningitis due to other specified causes	Diagnosis	ICD-10-CM
G00.9	Meningitis, unspecified	Diagnosis	ICD-10-CM
G01	Abscess of right upper eyelid	Diagnosis	ICD-10-CM
G02	Abscess of right lower eyelid	Diagnosis	ICD-10-CM
G02	Abscess of eyelid right eye, unspecified eyelid	Diagnosis	ICD-10-CM
G03.8	Abscess of left upper eyelid	Diagnosis	ICD-10-CM
G03.9	Abscess of left lower eyelid	Diagnosis	ICD-10-CM
G03.9	Abscess of eyelid left eye, unspecified eyelid	Diagnosis	ICD-10-CM
H00.031	Abscess of eyelid unspecified eye, unspecified eyelid	Diagnosis	ICD-10-CM
H00.032	Cellulitis of right orbit	Diagnosis	ICD-10-CM
H00.033	Cellulitis of left orbit	Diagnosis	ICD-10-CM
H00.036	Cellulitis of bilateral orbits	Diagnosis	ICD-10-CM
H00.039	Cellulitis of unspecified orbit	Diagnosis	ICD-10-CM
H05.011	Osteomyelitis of orbit	Diagnosis	ICD-10-CM
H05.011	Osteomyelitis of right orbit	Diagnosis	ICD-10-CM
H05.012	Osteomyelitis of left orbit	Diagnosis	ICD-10-CM
H05.013	Osteomyelitis of bilateral orbits	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
H05.019	Osteomyelitis of unspecified orbit	Diagnosis	ICD-10-CM
H05.019	Abscess of external ear, unspecified ear	Diagnosis	ICD-10-CM
H05.02	Abscess of right external ear	Diagnosis	ICD-10-CM
H05.021	Abscess of left external ear	Diagnosis	ICD-10-CM
H05.022	Abscess of external ear, bilateral	Diagnosis	ICD-10-CM
H05.023	Cellulitis of external ear, unspecified ear	Diagnosis	ICD-10-CM
H05.029	Cellulitis of right external ear	Diagnosis	ICD-10-CM
H60.00	Cellulitis of left external ear	Diagnosis	ICD-10-CM
H60.01	Cellulitis of external ear, bilateral	Diagnosis	ICD-10-CM
H60.03	Acute and subacute infective endocarditis	Diagnosis	ICD-10-CM
H60.10	Athscl native arteries of extremities w gangrene, right leg	Diagnosis	ICD-10-CM
H60.11	Athscl native arteries of extremities w gangrene, left leg	Diagnosis	ICD-10-CM
H60.12	Athscl native arteries of extrm w gangrene, bilateral legs	Diagnosis	ICD-10-CM
H60.13	Athscl native arteries of extrm w gangrene, oth extremity	Diagnosis	ICD-10-CM
I33.0	Athscl native arteries of extrm w gangrene, unsp extremity	Diagnosis	ICD-10-CM
I70.261	Raynaud's syndrome with gangrene	Diagnosis	ICD-10-CM
I70.261	Septic arterial embolism	Diagnosis	ICD-10-CM
I70.262	Gangrene, not elsewhere classified	Diagnosis	ICD-10-CM
I70.262	Acute nasopharyngitis [common cold]	Diagnosis	ICD-10-CM
I70.268	Acute maxillary sinusitis, unspecified	Diagnosis	ICD-10-CM
I70.269	Acute recurrent maxillary sinusitis	Diagnosis	ICD-10-CM
I70.269	Acute frontal sinusitis, unspecified	Diagnosis	ICD-10-CM
I76	Acute recurrent frontal sinusitis	Diagnosis	ICD-10-CM
I96	Acute ethmoidal sinusitis, unspecified	Diagnosis	ICD-10-CM
I96	Acute recurrent ethmoidal sinusitis	Diagnosis	ICD-10-CM
J00	Acute sphenoidal sinusitis, unspecified	Diagnosis	ICD-10-CM
J00	Acute recurrent sphenoidal sinusitis	Diagnosis	ICD-10-CM
J01.00	Acute pansinusitis, unspecified	Diagnosis	ICD-10-CM
J01.00	Acute recurrent pansinusitis	Diagnosis	ICD-10-CM
J01.01	Other acute sinusitis	Diagnosis	ICD-10-CM
J01.10	Other acute recurrent sinusitis	Diagnosis	ICD-10-CM
J01.11	Acute sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.20	Acute recurrent sinusitis, unspecified	Diagnosis	ICD-10-CM
J01.21	Streptococcal pharyngitis	Diagnosis	ICD-10-CM
J01.30	Acute pharyngitis due to other specified organisms	Diagnosis	ICD-10-CM
J01.31	Acute pharyngitis, unspecified	Diagnosis	ICD-10-CM
J01.41	Acute streptococcal tonsillitis, unspecified	Diagnosis	ICD-10-CM
J01.80	Acute recurrent streptococcal tonsillitis	Diagnosis	ICD-10-CM
J01.81	Acute tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J01.90	Acute recurrent tonsillitis due to other specified organisms	Diagnosis	ICD-10-CM
J01.91	Acute tonsillitis, unspecified	Diagnosis	ICD-10-CM
J02.8	Acute recurrent tonsillitis, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J02.9	Acute laryngitis	Diagnosis	ICD-10-CM
J03.00	Acute tracheitis without obstruction	Diagnosis	ICD-10-CM
J03.01	Acute tracheitis with obstruction	Diagnosis	ICD-10-CM
J03.80	Acute laryngotracheitis	Diagnosis	ICD-10-CM
J03.81	Supraglottitis, unspecified, without obstruction	Diagnosis	ICD-10-CM
J03.90	Supraglottitis, unspecified, with obstruction	Diagnosis	ICD-10-CM
J03.91	Acute obstructive laryngitis [croup]	Diagnosis	ICD-10-CM
J04.0	Acute epiglottitis without obstruction	Diagnosis	ICD-10-CM
J04.0	Acute epiglottitis with obstruction	Diagnosis	ICD-10-CM
J04.10	Acute laryngopharyngitis	Diagnosis	ICD-10-CM
J04.11	Acute upper respiratory infection, unspecified	Diagnosis	ICD-10-CM
J04.2	Influenza due to ident novel influenza A virus w pneumonia	Diagnosis	ICD-10-CM
J04.30	Flu due to ident novel influenza A virus w oth resp manifest	Diagnosis	ICD-10-CM
J04.31	Influenza due to ident novel influenza A virus w GI manifest	Diagnosis	ICD-10-CM
J05.0	Flu due to ident novel influenza A virus w oth manifest	Diagnosis	ICD-10-CM
J05.10	Flu due to oth ident flu virus w unsp type of pneumonia	Diagnosis	ICD-10-CM
J05.11	Flu due to oth ident flu virus w same oth ident flu virus pn	Diagnosis	ICD-10-CM
J06.0	Influenza due to oth ident influenza virus w oth pneumonia	Diagnosis	ICD-10-CM
J06.9	Flu due to oth ident influenza virus w oth resp manifest	Diagnosis	ICD-10-CM
J09.X1	Influenza due to oth ident influenza virus w GI manifest	Diagnosis	ICD-10-CM
J09.X1	Influenza due to oth ident influenza virus w encephalopathy	Diagnosis	ICD-10-CM
J09.X2	Influenza due to oth ident influenza virus w myocarditis	Diagnosis	ICD-10-CM
J09.X3	Influenza due to oth ident influenza virus w otitis media	Diagnosis	ICD-10-CM
J09.X3	Influenza due to oth ident influenza virus w oth manifest	Diagnosis	ICD-10-CM
J09.X9	Flu due to unidentified flu virus w unsp type of pneumonia	Diagnosis	ICD-10-CM
J10.00	Flu due to unidentified flu virus w specified pneumonia	Diagnosis	ICD-10-CM
J10.01	Flu due to unidentified influenza virus w oth resp manifest	Diagnosis	ICD-10-CM
J10.08	Influenza due to unidentified influenza virus w GI manifest	Diagnosis	ICD-10-CM
J10.08	Flu due to unidentified influenza virus w encephalopathy	Diagnosis	ICD-10-CM
J10.1	Influenza due to unidentified influenza virus w myocarditis	Diagnosis	ICD-10-CM
J10.2	Influenza due to unidentified influenza virus w otitis media	Diagnosis	ICD-10-CM
J10.81	Influenza due to unidentified influenza virus w oth manifest	Diagnosis	ICD-10-CM
J10.82	Viral pneumonia	Diagnosis	ICD-10-CM
J10.83	Adenoviral pneumonia	Diagnosis	ICD-10-CM
J10.89	Respiratory syncytial virus pneumonia	Diagnosis	ICD-10-CM
J11.00	Parainfluenza virus pneumonia	Diagnosis	ICD-10-CM
J11.08	Human metapneumovirus pneumonia	Diagnosis	ICD-10-CM
J11.08	Other viral pneumonia	Diagnosis	ICD-10-CM
J11.1	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J11.1	Other viral pneumonia	Diagnosis	ICD-10-CM
J11.2	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J11.81	Pneumonia due to streptococcus pneumoniae	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J11.82	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J11.83	Bacterial pneumonia, not elsewhere classified	Diagnosis	ICD-10-CM
J11.89	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J11.89	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J12	Pneumonia due to staphylococcus	Diagnosis	ICD-10-CM
J12.0	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J12.1	Pneumonia due to staphylococcus aureus	Diagnosis	ICD-10-CM
J12.2	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J12.3	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J12.8	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J12.89	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J12.9	Pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
J13	Pneumonia due to other aerobic Gram-negative bacteria	Diagnosis	ICD-10-CM
J15	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.1	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to other infectious organisms, not elsewhere classified	Diagnosis	ICD-10-CM
J15.211	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J15.3	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J15.4	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J15.5	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J15.7	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J15.9	Hypostatic pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J16	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J16.0	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J17	Acute bronchitis due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J18.0	Acute bronchitis due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J18.1	Acute bronchitis due to streptococcus	Diagnosis	ICD-10-CM
J18.2	Acute bronchitis due to coxsackievirus	Diagnosis	ICD-10-CM
J18.8	Acute bronchitis due to parainfluenza virus	Diagnosis	ICD-10-CM
J18.9	Acute bronchitis due to respiratory syncytial virus	Diagnosis	ICD-10-CM
J20.0	Acute bronchitis due to rhinovirus	Diagnosis	ICD-10-CM
J20.3	Acute bronchitis due to echovirus	Diagnosis	ICD-10-CM
J20.4	Acute bronchitis due to other specified organisms	Diagnosis	ICD-10-CM
J20.5	Acute bronchitis, unspecified	Diagnosis	ICD-10-CM
J20.6	Acute bronchiolitis due to respiratory syncytial virus	Diagnosis	ICD-10-CM
J20.9	Acute bronchiolitis due to human metapneumovirus	Diagnosis	ICD-10-CM
J21.0	Acute bronchiolitis due to other specified organisms	Diagnosis	ICD-10-CM
J21.1	Acute bronchiolitis, unspecified	Diagnosis	ICD-10-CM
J21.8	Unspecified acute lower respiratory infection	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J21.9	Vasomotor rhinitis	Diagnosis	ICD-10-CM
J30.1	Allergic rhinitis due to pollen	Diagnosis	ICD-10-CM
J30.2	Other seasonal allergic rhinitis	Diagnosis	ICD-10-CM
J30.5	Allergic rhinitis due to food	Diagnosis	ICD-10-CM
J30.81	Allergic rhinitis due to animal (cat) (dog) hair and dander	Diagnosis	ICD-10-CM
J30.89	Other allergic rhinitis	Diagnosis	ICD-10-CM
J30.89	Allergic rhinitis, unspecified	Diagnosis	ICD-10-CM
J30.9	Chronic rhinitis	Diagnosis	ICD-10-CM
J31.0	Chronic nasopharyngitis	Diagnosis	ICD-10-CM
J31.1	Chronic pharyngitis	Diagnosis	ICD-10-CM
J31.2	Chronic maxillary sinusitis	Diagnosis	ICD-10-CM
J32.0	Chronic frontal sinusitis	Diagnosis	ICD-10-CM
J32.1	Chronic ethmoidal sinusitis	Diagnosis	ICD-10-CM
J32.2	Chronic sphenoidal sinusitis	Diagnosis	ICD-10-CM
J32.3	Chronic pansinusitis	Diagnosis	ICD-10-CM
J32.4	Other chronic sinusitis	Diagnosis	ICD-10-CM
J32.8	Chronic sinusitis, unspecified	Diagnosis	ICD-10-CM
J32.9	Polyp of nasal cavity	Diagnosis	ICD-10-CM
J33.0	Polypoid sinus degeneration	Diagnosis	ICD-10-CM
J33.8	Other polyp of sinus	Diagnosis	ICD-10-CM
J33.9	Nasal polyp, unspecified	Diagnosis	ICD-10-CM
J34.0	Abscess, furuncle and carbuncle of nose	Diagnosis	ICD-10-CM
J34.1	Cyst and mucocele of nose and nasal sinus	Diagnosis	ICD-10-CM
J34.2	Deviated nasal septum	Diagnosis	ICD-10-CM
J34.3	Hypertrophy of nasal turbinates	Diagnosis	ICD-10-CM
J34.81	Nasal mucositis (ulcerative)	Diagnosis	ICD-10-CM
J34.81	Other specified disorders of nose and nasal sinuses	Diagnosis	ICD-10-CM
J34.89	Unspecified disorder of nose and nasal sinuses	Diagnosis	ICD-10-CM
J34.89	Chronic tonsillitis	Diagnosis	ICD-10-CM
J34.9	Chronic adenoiditis	Diagnosis	ICD-10-CM
J35.01	Chronic tonsillitis and adenoiditis	Diagnosis	ICD-10-CM
J35.02	Hypertrophy of tonsils	Diagnosis	ICD-10-CM
J35.03	Hypertrophy of adenoids	Diagnosis	ICD-10-CM
J35.1	Hypertrophy of tonsils with hypertrophy of adenoids	Diagnosis	ICD-10-CM
J35.2	Other chronic diseases of tonsils and adenoids	Diagnosis	ICD-10-CM
J35.3	Chronic disease of tonsils and adenoids, unspecified	Diagnosis	ICD-10-CM
J35.8	Peritonsillar abscess	Diagnosis	ICD-10-CM
J35.8	Chronic laryngitis	Diagnosis	ICD-10-CM
J35.9	Chronic laryngotracheitis	Diagnosis	ICD-10-CM
J36	Paralysis of vocal cords and larynx, unspecified	Diagnosis	ICD-10-CM
J37.0	Paralysis of vocal cords and larynx, unilateral	Diagnosis	ICD-10-CM
J37.1	Paralysis of vocal cords and larynx, bilateral	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J37.1	Polyp of vocal cord and larynx	Diagnosis	ICD-10-CM
J38.00	Nodules of vocal cords	Diagnosis	ICD-10-CM
J38.00	Other diseases of vocal cords	Diagnosis	ICD-10-CM
J38.01	Edema of larynx	Diagnosis	ICD-10-CM
J38.02	Laryngeal spasm	Diagnosis	ICD-10-CM
J38.1	Stenosis of larynx	Diagnosis	ICD-10-CM
J38.2	Other diseases of larynx	Diagnosis	ICD-10-CM
J38.3	Retropharyngeal and parapharyngeal abscess	Diagnosis	ICD-10-CM
J38.4	Other abscess of pharynx	Diagnosis	ICD-10-CM
J38.5	Other diseases of pharynx	Diagnosis	ICD-10-CM
J38.6	Upper respiratory tract hypersensitivity reaction, site unsp	Diagnosis	ICD-10-CM
J38.7	Other specified diseases of upper respiratory tract	Diagnosis	ICD-10-CM
J39.0	Disease of upper respiratory tract, unspecified	Diagnosis	ICD-10-CM
J39.1	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J39.1	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J39.2	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J39.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J39.8	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J39.9	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J40	Panlobular emphysema	Diagnosis	ICD-10-CM
J41.0	Centrilobular emphysema	Diagnosis	ICD-10-CM
J41.1	Other emphysema	Diagnosis	ICD-10-CM
J41.8	Emphysema, unspecified	Diagnosis	ICD-10-CM
J42	Chronic obstructive pulmon disease w acute lower resp infct	Diagnosis	ICD-10-CM
J43.0	Chronic obstructive pulmonary disease w (acute) exacerbation	Diagnosis	ICD-10-CM
J43.1	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J43.1	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J43.2	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J43.9	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J44.0	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J44.1	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.9	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.20	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.22	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.30	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.31	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.32	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.40	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Exercise induced bronchospasm	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J45.42	Cough variant asthma	Diagnosis	ICD-10-CM
J45.52	Other asthma	Diagnosis	ICD-10-CM
J45.901	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J45.909	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.990	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
J45.990	Gangrene and necrosis of lung	Diagnosis	ICD-10-CM
J45.991	Abscess of lung with pneumonia	Diagnosis	ICD-10-CM
J45.998	Cellulitis and abscess of mouth	Diagnosis	ICD-10-CM
J47.0	Acute appendicitis with generalized peritonitis	Diagnosis	ICD-10-CM
J47.1	Acute appendicitis with localized peritonitis	Diagnosis	ICD-10-CM
J47.9	Unspecified acute appendicitis	Diagnosis	ICD-10-CM
J85.0	Other acute appendicitis	Diagnosis	ICD-10-CM
J85.1	Other appendicitis	Diagnosis	ICD-10-CM
K12.2	Unspecified appendicitis	Diagnosis	ICD-10-CM
K35.2	Disease of appendix, unspecified	Diagnosis	ICD-10-CM
K35.3	Necrotizing enterocolitis, unspecified	Diagnosis	ICD-10-CM
K35.80	Stage 1 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K35.89	Stage 2 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K37	Stage 3 necrotizing enterocolitis	Diagnosis	ICD-10-CM
K38.9	Diverticulitis of small intestine with perforation and abscess without bleeding	Diagnosis	ICD-10-CM
K55.30	Diverticulitis of small intestine with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K55.31	Diverticulitis of small intestine without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.00	Diverticulitis of small intestine without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K57.01	Diverticulitis of large intestine with perforation and abscess without bleeding	Diagnosis	ICD-10-CM
K57.12	Diverticulitis of large intestine with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.13	Diverticulitis of large intestine without perforation or abscess without bleeding	Diagnosis	ICD-10-CM
K57.20	Diverticulitis of large intestine without perforation or abscess with bleeding	Diagnosis	ICD-10-CM
K57.21	Diverticulitis of both small and large intestine with perforation and abscess without ble	Diagnosis	ICD-10-CM
K57.32	Diverticulitis of both small and large intestine with perforation and abscess with bleedi	Diagnosis	ICD-10-CM
K57.40	Diverticulitis of both small and large intestine without perforation or abscess without k	Diagnosis	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine without perforation or abscess with blee	Diagnosis	ICD-10-CM
K57.52	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleed	Diagnosis	ICD-10-CM
K57.53	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	Diagnosis	ICD-10-CM
K57.80	Diverticulitis of intestine, part unspecified, without perforation or abscess without blee	Diagnosis	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleedin	Diagnosis	ICD-10-CM
K57.92	Abscess of anal and rectal regions	Diagnosis	ICD-10-CM
K57.93	Anal abscess	Diagnosis	ICD-10-CM
K61	Rectal abscess	Diagnosis	ICD-10-CM
K61.0	Anorectal abscess	Diagnosis	ICD-10-CM
K61.0	Ischiorectal abscess	Diagnosis	ICD-10-CM
K61.1	Intrasphincteric abscess	Diagnosis	ICD-10-CM
K61.2	Abscess of intestine	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K61.3	Generalized (acute) peritonitis	Diagnosis	ICD-10-CM
K61.4	Peritoneal abscess	Diagnosis	ICD-10-CM
K63.0	Spontaneous bacterial peritonitis	Diagnosis	ICD-10-CM
K65.0	Choleperitonitis	Diagnosis	ICD-10-CM
K65.1	Other peritonitis	Diagnosis	ICD-10-CM
K65.1	Peritonitis, unspecified	Diagnosis	ICD-10-CM
K65.2	Other retroperitoneal abscess	Diagnosis	ICD-10-CM
K65.3	Abscess of liver	Diagnosis	ICD-10-CM
K65.8	Acute cholecystitis	Diagnosis	ICD-10-CM
K65.9	Chronic cholecystitis	Diagnosis	ICD-10-CM
K68.19	Acute cholecystitis with chronic cholecystitis	Diagnosis	ICD-10-CM
K81.0	Cholecystitis, unspecified	Diagnosis	ICD-10-CM
K81.1	Idiopathic acute pancreatitis	Diagnosis	ICD-10-CM
K81.2	Idiopathic acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K81.9	Idiopathic acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.0	Idiopathic acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.00	Biliary acute pancreatitis	Diagnosis	ICD-10-CM
K85.01	Biliary acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.02	Biliary acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.1	Biliary acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.10	Alcohol induced acute pancreatitis	Diagnosis	ICD-10-CM
K85.11	Alcohol induced acute pancreatitis without necrosis or infct	Diagnosis	ICD-10-CM
K85.12	Alcohol induced acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.2	Alcohol induced acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.2	Drug induced acute pancreatitis	Diagnosis	ICD-10-CM
K85.20	Drug induced acute pancreatitis without necrosis or infct	Diagnosis	ICD-10-CM
K85.21	Drug induced acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.21	Drug induced acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.22	Other acute pancreatitis	Diagnosis	ICD-10-CM
K85.22	Other acute pancreatitis without necrosis or infection	Diagnosis	ICD-10-CM
K85.3	Other acute pancreatitis with uninfected necrosis	Diagnosis	ICD-10-CM
K85.30	Other acute pancreatitis with infected necrosis	Diagnosis	ICD-10-CM
K85.31	Acute pancreatitis, unspecified	Diagnosis	ICD-10-CM
K85.32	Acute pancreatitis without necrosis or infection, unsp	Diagnosis	ICD-10-CM
K85.8	Acute pancreatitis with uninfected necrosis, unspecified	Diagnosis	ICD-10-CM
K85.8	Acute pancreatitis with infected necrosis, unspecified	Diagnosis	ICD-10-CM
K85.80	Alcohol-induced chronic pancreatitis	Diagnosis	ICD-10-CM
K85.81	Other chronic pancreatitis	Diagnosis	ICD-10-CM
K85.81	Staphylococcal scalded skin syndrome	Diagnosis	ICD-10-CM
K85.9	Impetigo, unspecified	Diagnosis	ICD-10-CM
K85.92	Non-bullous impetigo	Diagnosis	ICD-10-CM
K86.0	Bockhart's impetigo	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
K86.1	Bullous impetigo	Diagnosis	ICD-10-CM
L01.00	Other impetigo	Diagnosis	ICD-10-CM
L01.01	Impetiginization of other dermatoses	Diagnosis	ICD-10-CM
L01.02	Cutaneous abscess of face	Diagnosis	ICD-10-CM
L01.03	Furuncle of face	Diagnosis	ICD-10-CM
L01.09	Carbuncle of face	Diagnosis	ICD-10-CM
L01.1	Cutaneous abscess of neck	Diagnosis	ICD-10-CM
L02.01	Furuncle of neck	Diagnosis	ICD-10-CM
L02.02	Carbuncle of neck	Diagnosis	ICD-10-CM
L02.03	Cutaneous abscess of abdominal wall	Diagnosis	ICD-10-CM
L02.11	Cutaneous abscess of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.12	Cutaneous abscess of chest wall	Diagnosis	ICD-10-CM
L02.13	Cutaneous abscess of groin	Diagnosis	ICD-10-CM
L02.211	Cutaneous abscess of perineum	Diagnosis	ICD-10-CM
L02.212	Cutaneous abscess of umbilicus	Diagnosis	ICD-10-CM
L02.213	Cutaneous abscess of trunk, unspecified	Diagnosis	ICD-10-CM
L02.214	Furuncle of abdominal wall	Diagnosis	ICD-10-CM
L02.215	Furuncle of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.216	Furuncle of chest wall	Diagnosis	ICD-10-CM
L02.219	Furuncle of groin	Diagnosis	ICD-10-CM
L02.221	Furuncle of perineum	Diagnosis	ICD-10-CM
L02.222	Furuncle of umbilicus	Diagnosis	ICD-10-CM
L02.223	Furuncle of trunk, unspecified	Diagnosis	ICD-10-CM
L02.224	Carbuncle of abdominal wall	Diagnosis	ICD-10-CM
L02.225	Carbuncle of back [any part, except buttock]	Diagnosis	ICD-10-CM
L02.226	Carbuncle of chest wall	Diagnosis	ICD-10-CM
L02.229	Carbuncle of groin	Diagnosis	ICD-10-CM
L02.231	Carbuncle of perineum	Diagnosis	ICD-10-CM
L02.232	Carbuncle of umbilicus	Diagnosis	ICD-10-CM
L02.233	Carbuncle of trunk, unspecified	Diagnosis	ICD-10-CM
L02.234	Cutaneous abscess of buttock	Diagnosis	ICD-10-CM
L02.235	Furuncle of buttock	Diagnosis	ICD-10-CM
L02.236	Carbuncle of buttock	Diagnosis	ICD-10-CM
L02.239	Cutaneous abscess of right axilla	Diagnosis	ICD-10-CM
L02.31	Cutaneous abscess of left axilla	Diagnosis	ICD-10-CM
L02.32	Cutaneous abscess of right upper limb	Diagnosis	ICD-10-CM
L02.33	Cutaneous abscess of left upper limb	Diagnosis	ICD-10-CM
L02.411	Cutaneous abscess of right lower limb	Diagnosis	ICD-10-CM
L02.412	Cutaneous abscess of left lower limb	Diagnosis	ICD-10-CM
L02.413	Cutaneous abscess of limb, unspecified	Diagnosis	ICD-10-CM
L02.414	Furuncle of right axilla	Diagnosis	ICD-10-CM
L02.415	Furuncle of left axilla	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L02.416	Furuncle of right upper limb	Diagnosis	ICD-10-CM
L02.419	Furuncle of left upper limb	Diagnosis	ICD-10-CM
L02.421	Furuncle of right lower limb	Diagnosis	ICD-10-CM
L02.421	Furuncle of left lower limb	Diagnosis	ICD-10-CM
L02.422	Furuncle of limb, unspecified	Diagnosis	ICD-10-CM
L02.423	Carbuncle of right axilla	Diagnosis	ICD-10-CM
L02.424	Carbuncle of left axilla	Diagnosis	ICD-10-CM
L02.424	Carbuncle of right upper limb	Diagnosis	ICD-10-CM
L02.425	Carbuncle of left upper limb	Diagnosis	ICD-10-CM
L02.425	Carbuncle of right lower limb	Diagnosis	ICD-10-CM
L02.426	Carbuncle of left lower limb	Diagnosis	ICD-10-CM
L02.426	Carbuncle of limb, unspecified	Diagnosis	ICD-10-CM
L02.429	Cutaneous abscess of right hand	Diagnosis	ICD-10-CM
L02.429	Cutaneous abscess of left hand	Diagnosis	ICD-10-CM
L02.431	Cutaneous abscess of unspecified hand	Diagnosis	ICD-10-CM
L02.432	Furuncle right hand	Diagnosis	ICD-10-CM
L02.433	Furuncle left hand	Diagnosis	ICD-10-CM
L02.434	Furuncle unspecified hand	Diagnosis	ICD-10-CM
L02.435	Carbuncle of right hand	Diagnosis	ICD-10-CM
L02.436	Carbuncle of left hand	Diagnosis	ICD-10-CM
L02.439	Carbuncle of unspecified hand	Diagnosis	ICD-10-CM
L02.511	Cutaneous abscess of right foot	Diagnosis	ICD-10-CM
L02.512	Cutaneous abscess of left foot	Diagnosis	ICD-10-CM
L02.519	Cutaneous abscess of unspecified foot	Diagnosis	ICD-10-CM
L02.521	Furuncle of right foot	Diagnosis	ICD-10-CM
L02.522	Furuncle of left foot	Diagnosis	ICD-10-CM
L02.529	Furuncle of unspecified foot	Diagnosis	ICD-10-CM
L02.529	Carbuncle of right foot	Diagnosis	ICD-10-CM
L02.531	Carbuncle of left foot	Diagnosis	ICD-10-CM
L02.532	Carbuncle of unspecified foot	Diagnosis	ICD-10-CM
L02.539	Cutaneous abscess of head [any part, except face]	Diagnosis	ICD-10-CM
L02.611	Cutaneous abscess of other sites	Diagnosis	ICD-10-CM
L02.612	Furuncle of head [any part, except face]	Diagnosis	ICD-10-CM
L02.619	Furuncle of other sites	Diagnosis	ICD-10-CM
L02.621	Carbuncle of head [any part, except face]	Diagnosis	ICD-10-CM
L02.622	Carbuncle of other sites	Diagnosis	ICD-10-CM
L02.622	Cutaneous abscess, unspecified	Diagnosis	ICD-10-CM
L02.629	Furuncle, unspecified	Diagnosis	ICD-10-CM
L02.631	Carbuncle, unspecified	Diagnosis	ICD-10-CM
L02.632	Cellulitis and acute lymphangitis	Diagnosis	ICD-10-CM
L02.632	Cellulitis and acute lymphangitis of finger and toe	Diagnosis	ICD-10-CM
L02.639	Cellulitis of finger	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
L02.811	Cellulitis of right finger	Diagnosis	ICD-10-CM
L02.818	Cellulitis of left finger	Diagnosis	ICD-10-CM
L02.821	Cellulitis of unspecified finger	Diagnosis	ICD-10-CM
L02.828	Acute lymphangitis of right finger	Diagnosis	ICD-10-CM
L02.831	Acute lymphangitis of left finger	Diagnosis	ICD-10-CM
L02.838	Acute lymphangitis of unspecified finger	Diagnosis	ICD-10-CM
L02.91	Cellulitis of toe	Diagnosis	ICD-10-CM
L02.92	Cellulitis of right toe	Diagnosis	ICD-10-CM
L02.93	Cellulitis of left toe	Diagnosis	ICD-10-CM
L03	Cellulitis of unspecified toe	Diagnosis	ICD-10-CM
L03.0	Acute lymphangitis of right toe	Diagnosis	ICD-10-CM
L03.01	Acute lymphangitis of left toe	Diagnosis	ICD-10-CM
L03.011	Acute lymphangitis of unspecified toe	Diagnosis	ICD-10-CM
L03.011	Cellulitis and acute lymphangitis of other parts of limb	Diagnosis	ICD-10-CM
L03.012	Cellulitis of other parts of limb	Diagnosis	ICD-10-CM
L03.019	Cellulitis of right axilla	Diagnosis	ICD-10-CM
L03.021	Cellulitis of left axilla	Diagnosis	ICD-10-CM
L03.022	Cellulitis of right upper limb	Diagnosis	ICD-10-CM
L03.03	Cellulitis of left upper limb	Diagnosis	ICD-10-CM
L03.031	Cellulitis of right lower limb	Diagnosis	ICD-10-CM
L03.032	Cellulitis of left lower limb	Diagnosis	ICD-10-CM
L03.039	Cellulitis of unspecified part of limb	Diagnosis	ICD-10-CM
L03.039	Acute lymphangitis of right axilla	Diagnosis	ICD-10-CM
L03.041	Acute lymphangitis of left axilla	Diagnosis	ICD-10-CM
L03.1	Acute lymphangitis of right upper limb	Diagnosis	ICD-10-CM
L03.11	Acute lymphangitis of left upper limb	Diagnosis	ICD-10-CM
L03.111	Acute lymphangitis of right lower limb	Diagnosis	ICD-10-CM
L03.112	Acute lymphangitis of left lower limb	Diagnosis	ICD-10-CM
L03.113	Acute lymphangitis of unspecified part of limb	Diagnosis	ICD-10-CM
L03.114	Cellulitis and acute lymphangitis of face and neck	Diagnosis	ICD-10-CM
L03.115	Cellulitis and acute lymphangitis of face	Diagnosis	ICD-10-CM
L03.116	Cellulitis of face	Diagnosis	ICD-10-CM
L03.119	Acute lymphangitis of face	Diagnosis	ICD-10-CM
L03.121	Periorbital cellulitis	Diagnosis	ICD-10-CM
L03.122	Cellulitis and acute lymphangitis of neck	Diagnosis	ICD-10-CM
L03.123	Cellulitis of neck	Diagnosis	ICD-10-CM
L03.124	Acute lymphangitis of neck	Diagnosis	ICD-10-CM
L03.124	Cellulitis and acute lymphangitis of trunk	Diagnosis	ICD-10-CM
L03.125	Cellulitis of trunk	Diagnosis	ICD-10-CM
L03.125	Cellulitis of abdominal wall	Diagnosis	ICD-10-CM
L03.126	Cellulitis of back [any part except buttock]	Diagnosis	ICD-10-CM
L03.129	Cellulitis of chest wall	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L03.2	Cellulitis of groin	Diagnosis	ICD-10-CM
L03.21	Cellulitis of perineum	Diagnosis	ICD-10-CM
L03.211	Cellulitis of umbilicus	Diagnosis	ICD-10-CM
L03.212	Cellulitis of buttock	Diagnosis	ICD-10-CM
L03.213	Cellulitis of trunk, unspecified	Diagnosis	ICD-10-CM
L03.22	Acute lymphangitis of abdominal wall	Diagnosis	ICD-10-CM
L03.221	Acute lymphangitis of back [any part except buttock]	Diagnosis	ICD-10-CM
L03.222	Acute lymphangitis of chest wall	Diagnosis	ICD-10-CM
L03.3	Acute lymphangitis of groin	Diagnosis	ICD-10-CM
L03.31	Acute lymphangitis of perineum	Diagnosis	ICD-10-CM
L03.31	Acute lymphangitis of umbilicus	Diagnosis	ICD-10-CM
L03.311	Acute lymphangitis of buttock	Diagnosis	ICD-10-CM
L03.312	Acute lymphangitis of trunk, unspecified	Diagnosis	ICD-10-CM
L03.313	Cellulitis and acute lymphangitis of other sites	Diagnosis	ICD-10-CM
L03.314	Cellulitis of other sites	Diagnosis	ICD-10-CM
L03.315	Cellulitis of head [any part, except face]	Diagnosis	ICD-10-CM
L03.316	Cellulitis of other sites	Diagnosis	ICD-10-CM
L03.317	Acute lymphangitis of head [any part, except face]	Diagnosis	ICD-10-CM
L03.319	Acute lymphangitis of other sites	Diagnosis	ICD-10-CM
L03.321	Cellulitis and acute lymphangitis, unspecified	Diagnosis	ICD-10-CM
L03.322	Cellulitis, unspecified	Diagnosis	ICD-10-CM
L03.323	Acute lymphangitis, unspecified	Diagnosis	ICD-10-CM
L03.324	Acute lymphadenitis of face, head and neck	Diagnosis	ICD-10-CM
L03.325	Acute lymphadenitis of trunk	Diagnosis	ICD-10-CM
L03.325	Acute lymphadenitis of upper limb	Diagnosis	ICD-10-CM
L03.326	Acute lymphadenitis of lower limb	Diagnosis	ICD-10-CM
L03.327	Acute lymphadenitis of other sites	Diagnosis	ICD-10-CM
L03.8	Acute lymphadenitis, unspecified	Diagnosis	ICD-10-CM
L03.81	Pilonidal cyst with abscess	Diagnosis	ICD-10-CM
L03.811	Pilonidal sinus with abscess	Diagnosis	ICD-10-CM
L03.818	Pilonidal cyst without abscess	Diagnosis	ICD-10-CM
L03.891	Pilonidal sinus without abscess	Diagnosis	ICD-10-CM
L03.898	Pyoderma	Diagnosis	ICD-10-CM
L03.9	Erythrasma	Diagnosis	ICD-10-CM
L03.90	Other specified local infections of the skin and subcutaneous tissue	Diagnosis	ICD-10-CM
L04.0	Pyoderma vegetans	Diagnosis	ICD-10-CM
L04.1	Omphalitis not of newborn	Diagnosis	ICD-10-CM
L04.3	Other specified local infections of the skin and subcutaneous tissue	Diagnosis	ICD-10-CM
L04.8	Local infection of the skin and subcutaneous tissue, unspecified	Diagnosis	ICD-10-CM
L05.01	Staphylococcal arthritis, unspecified joint	Diagnosis	ICD-10-CM
L05.01	Staphylococcal arthritis, right shoulder	Diagnosis	ICD-10-CM
L05.02	Staphylococcal arthritis, left shoulder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
L05.91	Staphylococcal arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
L05.92	Staphylococcal arthritis, right elbow	Diagnosis	ICD-10-CM
L08.1	Staphylococcal arthritis, left elbow	Diagnosis	ICD-10-CM
L08.8	Staphylococcal arthritis, unspecified elbow	Diagnosis	ICD-10-CM
L08.8	Staphylococcal arthritis, right wrist	Diagnosis	ICD-10-CM
L08.82	Staphylococcal arthritis, left wrist	Diagnosis	ICD-10-CM
L08.89	Staphylococcal arthritis, unspecified wrist	Diagnosis	ICD-10-CM
L08.9	Staphylococcal arthritis, right hand	Diagnosis	ICD-10-CM
L08.9	Staphylococcal arthritis, left hand	Diagnosis	ICD-10-CM
M00.00	Staphylococcal arthritis, unspecified hand	Diagnosis	ICD-10-CM
M00.012	Staphylococcal arthritis, right hip	Diagnosis	ICD-10-CM
M00.021	Staphylococcal arthritis, left hip	Diagnosis	ICD-10-CM
M00.031	Staphylococcal arthritis, unspecified hip	Diagnosis	ICD-10-CM
M00.039	Staphylococcal arthritis, right knee	Diagnosis	ICD-10-CM
M00.042	Staphylococcal arthritis, left knee	Diagnosis	ICD-10-CM
M00.049	Staphylococcal arthritis, unspecified knee	Diagnosis	ICD-10-CM
M00.052	Staphylococcal arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M00.059	Staphylococcal arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M00.061	Staphylococcal arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M00.071	Staphylococcal arthritis, vertebrae	Diagnosis	ICD-10-CM
M00.111	Staphylococcal polyarthritis	Diagnosis	ICD-10-CM
M00.112	Pneumococcal arthritis, unspecified joint	Diagnosis	ICD-10-CM
M00.119	Pneumococcal arthritis, right shoulder	Diagnosis	ICD-10-CM
M00.121	Pneumococcal arthritis, left shoulder	Diagnosis	ICD-10-CM
M00.122	Pneumococcal arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M00.129	Pneumococcal arthritis, right elbow	Diagnosis	ICD-10-CM
M00.131	Pneumococcal arthritis, left elbow	Diagnosis	ICD-10-CM
M00.132	Pneumococcal arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M00.141	Pneumococcal arthritis, right wrist	Diagnosis	ICD-10-CM
M00.142	Pneumococcal arthritis, left wrist	Diagnosis	ICD-10-CM
M00.149	Pneumococcal arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M00.151	Pneumococcal arthritis, right hand	Diagnosis	ICD-10-CM
M00.152	Pneumococcal arthritis, left hand	Diagnosis	ICD-10-CM
M00.159	Pneumococcal arthritis, unspecified hand	Diagnosis	ICD-10-CM
M00.161	Pneumococcal arthritis, right hip	Diagnosis	ICD-10-CM
M00.162	Pneumococcal arthritis, left hip	Diagnosis	ICD-10-CM
M00.171	Pneumococcal arthritis, unspecified hip	Diagnosis	ICD-10-CM
M00.172	Pneumococcal arthritis, right knee	Diagnosis	ICD-10-CM
M00.179	Pneumococcal arthritis, left knee	Diagnosis	ICD-10-CM
M00.18	Pneumococcal arthritis, unspecified knee	Diagnosis	ICD-10-CM
M00.19	Pneumococcal arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M00.20	Pneumococcal arthritis, left ankle and foot	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M00.211	Pneumococcal arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M00.212	Pneumococcal arthritis, vertebrae	Diagnosis	ICD-10-CM
M00.219	Pneumococcal polyarthritis	Diagnosis	ICD-10-CM
M00.221	Other streptococcal arthritis, unspecified joint	Diagnosis	ICD-10-CM
M00.221	Other streptococcal arthritis, right shoulder	Diagnosis	ICD-10-CM
M00.222	Other streptococcal arthritis, left shoulder	Diagnosis	ICD-10-CM
M00.229	Other streptococcal arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M00.231	Other streptococcal arthritis, right elbow	Diagnosis	ICD-10-CM
M00.231	Other streptococcal arthritis, left elbow	Diagnosis	ICD-10-CM
M00.232	Other streptococcal arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M00.239	Other streptococcal arthritis, right wrist	Diagnosis	ICD-10-CM
M00.239	Other streptococcal arthritis, left wrist	Diagnosis	ICD-10-CM
M00.241	Other streptococcal arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M00.242	Other streptococcal arthritis, right hand	Diagnosis	ICD-10-CM
M00.249	Other streptococcal arthritis, left hand	Diagnosis	ICD-10-CM
M00.249	Other streptococcal arthritis, unspecified hand	Diagnosis	ICD-10-CM
M00.251	Other streptococcal arthritis, right hip	Diagnosis	ICD-10-CM
M00.252	Other streptococcal arthritis, left hip	Diagnosis	ICD-10-CM
M00.259	Other streptococcal arthritis, unspecified hip	Diagnosis	ICD-10-CM
M00.261	Other streptococcal arthritis, right knee	Diagnosis	ICD-10-CM
M00.262	Other streptococcal arthritis, left knee	Diagnosis	ICD-10-CM
M00.269	Other streptococcal arthritis, unspecified knee	Diagnosis	ICD-10-CM
M00.271	Other streptococcal arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M00.272	Other streptococcal arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M00.279	Other streptococcal arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M00.28	Other streptococcal arthritis, vertebrae	Diagnosis	ICD-10-CM
M00.29	Other streptococcal polyarthritis	Diagnosis	ICD-10-CM
M04.1	Periodic fever syndromes	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
M60.0	Infective myositis	Diagnosis	ICD-10-CM
M60.00	Infective myositis, unspecified site	Diagnosis	ICD-10-CM
M60.000	Infective myositis, unspecified right arm	Diagnosis	ICD-10-CM
M60.001	Infective myositis, unspecified left arm	Diagnosis	ICD-10-CM
M60.002	Infective myositis, unspecified arm	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M60.003	Infective myositis, unspecified right leg	Diagnosis	ICD-10-CM
M60.004	Infective myositis, unspecified left leg	Diagnosis	ICD-10-CM
M60.005	Infective myositis, unspecified leg	Diagnosis	ICD-10-CM
M60.009	Infective myositis, unspecified site	Diagnosis	ICD-10-CM
M60.01	Infective myositis, shoulder	Diagnosis	ICD-10-CM
M60.011	Infective myositis, right shoulder	Diagnosis	ICD-10-CM
M60.012	Infective myositis, left shoulder	Diagnosis	ICD-10-CM
M60.019	Infective myositis, unspecified shoulder	Diagnosis	ICD-10-CM
M60.02	Infective myositis, upper arm	Diagnosis	ICD-10-CM
M60.021	Infective myositis, right upper arm	Diagnosis	ICD-10-CM
M60.022	Infective myositis, left upper arm	Diagnosis	ICD-10-CM
M60.029	Infective myositis, unspecified upper arm	Diagnosis	ICD-10-CM
M60.03	Infective myositis, forearm	Diagnosis	ICD-10-CM
M60.031	Infective myositis, right forearm	Diagnosis	ICD-10-CM
M60.032	Infective myositis, left forearm	Diagnosis	ICD-10-CM
M60.039	Infective myositis, unspecified forearm	Diagnosis	ICD-10-CM
M60.04	Infective myositis, hand and fingers	Diagnosis	ICD-10-CM
M60.041	Infective myositis, right hand	Diagnosis	ICD-10-CM
M60.042	Infective myositis, left hand	Diagnosis	ICD-10-CM
M60.043	Infective myositis, unspecified hand	Diagnosis	ICD-10-CM
M60.044	Infective myositis, right finger(s)	Diagnosis	ICD-10-CM
M60.045	Infective myositis, left finger(s)	Diagnosis	ICD-10-CM
M60.046	Infective myositis, unspecified finger(s)	Diagnosis	ICD-10-CM
M60.05	Infective myositis, thigh	Diagnosis	ICD-10-CM
M60.051	Infective myositis, right thigh	Diagnosis	ICD-10-CM
M60.052	Infective myositis, left thigh	Diagnosis	ICD-10-CM
M60.059	Infective myositis, unspecified thigh	Diagnosis	ICD-10-CM
M60.06	Infective myositis, lower leg	Diagnosis	ICD-10-CM
M60.061	Infective myositis, right lower leg	Diagnosis	ICD-10-CM
M60.062	Infective myositis, left lower leg	Diagnosis	ICD-10-CM
M60.069	Infective myositis, unspecified lower leg	Diagnosis	ICD-10-CM
M60.07	Infective myositis, ankle, foot and toes	Diagnosis	ICD-10-CM
M60.070	Infective myositis, right ankle	Diagnosis	ICD-10-CM
M60.071	Infective myositis, left ankle	Diagnosis	ICD-10-CM
M60.072	Infective myositis, unspecified ankle	Diagnosis	ICD-10-CM
M60.073	Infective myositis, right foot	Diagnosis	ICD-10-CM
M60.074	Infective myositis, left foot	Diagnosis	ICD-10-CM
M60.075	Infective myositis, unspecified foot	Diagnosis	ICD-10-CM
M60.076	Infective myositis, right toe(s)	Diagnosis	ICD-10-CM
M60.077	Infective myositis, left toe(s)	Diagnosis	ICD-10-CM
M60.078	Infective myositis, unspecified toe(s)	Diagnosis	ICD-10-CM
M60.08	Infective myositis, other site	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M60.09	Infective myositis, multiple sites	Diagnosis	ICD-10-CM
M72.6	Necrotizing fasciitis	Diagnosis	ICD-10-CM
M86.00	Acute hematogenous osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.011	Acute hematogenous osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.019	Acute hematogenous osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.019	Acute hematogenous osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.029	Acute hematogenous osteomyelitis, right humerus	Diagnosis	ICD-10-CM
M86.031	Acute hematogenous osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.032	Acute hematogenous osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.039	Acute hematogenous osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.041	Acute hematogenous osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.042	Acute hematogenous osteomyelitis, unsp radius and ulna	Diagnosis	ICD-10-CM
M86.049	Acute hematogenous osteomyelitis, right hand	Diagnosis	ICD-10-CM
M86.049	Acute hematogenous osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.051	Acute hematogenous osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.061	Acute hematogenous osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.062	Acute hematogenous osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.069	Acute hematogenous osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.071	Acute hematogenous osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.072	Acute hematogenous osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.079	Acute hematogenous osteomyelitis, unsp tibia and fibula	Diagnosis	ICD-10-CM
M86.08	Acute hematogenous osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.09	Acute hematogenous osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.1	Acute hematogenous osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.10	Acute hematogenous osteomyelitis, other sites	Diagnosis	ICD-10-CM
M86.11	Acute hematogenous osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.111	Other acute osteomyelitis	Diagnosis	ICD-10-CM
M86.112	Other acute osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.119	Other acute osteomyelitis, shoulder	Diagnosis	ICD-10-CM
M86.121	Other acute osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.121	Other acute osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.122	Other acute osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.122	Other acute osteomyelitis, humerus	Diagnosis	ICD-10-CM
M86.129	Other acute osteomyelitis, right humerus	Diagnosis	ICD-10-CM
M86.131	Other acute osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.132	Other acute osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.139	Other acute osteomyelitis, radius and ulna	Diagnosis	ICD-10-CM
M86.14	Other acute osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.141	Other acute osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.142	Other acute osteomyelitis, unspecified radius and ulna	Diagnosis	ICD-10-CM
M86.142	Other acute osteomyelitis, hand	Diagnosis	ICD-10-CM
M86.149	Other acute osteomyelitis, right hand	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M86.15	Other acute osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.15	Other acute osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.151	Other acute osteomyelitis, femur	Diagnosis	ICD-10-CM
M86.152	Other acute osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.16	Other acute osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.161	Other acute osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.161	Other acute osteomyelitis, tibia and fibula	Diagnosis	ICD-10-CM
M86.162	Other acute osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.169	Other acute osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.17	Other acute osteomyelitis, unspecified tibia and fibula	Diagnosis	ICD-10-CM
M86.17	Other acute osteomyelitis, ankle and foot	Diagnosis	ICD-10-CM
M86.171	Other acute osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.171	Other acute osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.172	Other acute osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.179	Other acute osteomyelitis, other site	Diagnosis	ICD-10-CM
M86.179	Other acute osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.18	Subacute osteomyelitis, unspecified site	Diagnosis	ICD-10-CM
M86.18	Subacute osteomyelitis, right shoulder	Diagnosis	ICD-10-CM
M86.19	Subacute osteomyelitis, left shoulder	Diagnosis	ICD-10-CM
M86.20	Subacute osteomyelitis, unspecified shoulder	Diagnosis	ICD-10-CM
M86.211	Subacute osteomyelitis, right humerus	Diagnosis	ICD-10-CM
M86.212	Subacute osteomyelitis, left humerus	Diagnosis	ICD-10-CM
M86.219	Subacute osteomyelitis, unspecified humerus	Diagnosis	ICD-10-CM
M86.221	Subacute osteomyelitis, right radius and ulna	Diagnosis	ICD-10-CM
M86.229	Subacute osteomyelitis, left radius and ulna	Diagnosis	ICD-10-CM
M86.232	Subacute osteomyelitis, unspecified radius and ulna	Diagnosis	ICD-10-CM
M86.239	Subacute osteomyelitis, right hand	Diagnosis	ICD-10-CM
M86.241	Subacute osteomyelitis, left hand	Diagnosis	ICD-10-CM
M86.242	Subacute osteomyelitis, unspecified hand	Diagnosis	ICD-10-CM
M86.259	Subacute osteomyelitis, right femur	Diagnosis	ICD-10-CM
M86.261	Subacute osteomyelitis, left femur	Diagnosis	ICD-10-CM
M86.262	Subacute osteomyelitis, unspecified femur	Diagnosis	ICD-10-CM
M86.269	Subacute osteomyelitis, right tibia and fibula	Diagnosis	ICD-10-CM
M86.272	Subacute osteomyelitis, left tibia and fibula	Diagnosis	ICD-10-CM
M86.279	Subacute osteomyelitis, unspecified tibia and fibula	Diagnosis	ICD-10-CM
M86.29	Subacute osteomyelitis, right ankle and foot	Diagnosis	ICD-10-CM
M86.8X0	Subacute osteomyelitis, left ankle and foot	Diagnosis	ICD-10-CM
M86.8X1	Subacute osteomyelitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M86.8X1	Subacute osteomyelitis, other site	Diagnosis	ICD-10-CM
M86.8X2	Subacute osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.8X3	Other osteomyelitis, multiple sites	Diagnosis	ICD-10-CM
M86.8X5	Other osteomyelitis, shoulder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M86.8X6	Other osteomyelitis, upper arm	Diagnosis	ICD-10-CM
M86.8X7	Other osteomyelitis, forearm	Diagnosis	ICD-10-CM
M86.8X8	Other osteomyelitis, hand	Diagnosis	ICD-10-CM
M86.8X8	Other osteomyelitis, thigh	Diagnosis	ICD-10-CM
M86.8X9	Other osteomyelitis, lower leg	Diagnosis	ICD-10-CM
M86.9	Other osteomyelitis, ankle and foot	Diagnosis	ICD-10-CM
N10	Other osteomyelitis, other site	Diagnosis	ICD-10-CM
N10	Other osteomyelitis, unspecified sites	Diagnosis	ICD-10-CM
N16	Osteomyelitis, unspecified	Diagnosis	ICD-10-CM
N39.0	Acute pyelonephritis	Diagnosis	ICD-10-CM
N48.21	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N48.22	Urethral abscess	Diagnosis	ICD-10-CM
N61.0	Urinary tract infection, site not specified	Diagnosis	ICD-10-CM
N61.0	Abscess of corpus cavernosum and penis	Diagnosis	ICD-10-CM
N61.1	Cellulitis of corpus cavernosum and penis	Diagnosis	ICD-10-CM
N73.0	Mastitis without abscess	Diagnosis	ICD-10-CM
N73.2	Abscess of the breast and nipple	Diagnosis	ICD-10-CM
P35.0	Acute parametritis and pelvic cellulitis	Diagnosis	ICD-10-CM
P35.1	Unspecified parametritis and pelvic cellulitis	Diagnosis	ICD-10-CM
P35.2	Congenital rubella syndrome	Diagnosis	ICD-10-CM
P35.3	Congenital cytomegalovirus infection	Diagnosis	ICD-10-CM
P35.8	Congenital herpesviral [herpes simplex] infection	Diagnosis	ICD-10-CM
P35.9	Congenital viral hepatitis	Diagnosis	ICD-10-CM
P36.0	Other congenital viral diseases	Diagnosis	ICD-10-CM
P36.10	Congenital viral disease, unspecified	Diagnosis	ICD-10-CM
P36.19	Sepsis of newborn due to streptococcus, group B	Diagnosis	ICD-10-CM
P36.2	Sepsis of newborn due to unspecified streptococci	Diagnosis	ICD-10-CM
P36.30	Sepsis of newborn due to other streptococci	Diagnosis	ICD-10-CM
P36.39	Sepsis of newborn due to Staphylococcus aureus	Diagnosis	ICD-10-CM
P36.4	Sepsis of newborn due to unspecified staphylococci	Diagnosis	ICD-10-CM
P36.5	Sepsis of newborn due to other staphylococci	Diagnosis	ICD-10-CM
P36.8	Sepsis of newborn due to Escherichia coli	Diagnosis	ICD-10-CM
P36.9	Sepsis of newborn due to anaerobes	Diagnosis	ICD-10-CM
P37.0	Other bacterial sepsis of newborn	Diagnosis	ICD-10-CM
P37.1	Bacterial sepsis of newborn, unspecified	Diagnosis	ICD-10-CM
P37.2	Congenital tuberculosis	Diagnosis	ICD-10-CM
P37.3	Congenital toxoplasmosis	Diagnosis	ICD-10-CM
P37.4	Neonatal (disseminated) listeriosis	Diagnosis	ICD-10-CM
P37.5	Congenital falciparum malaria	Diagnosis	ICD-10-CM
P37.8	Other congenital malaria	Diagnosis	ICD-10-CM
P37.9	Neonatal candidiasis	Diagnosis	ICD-10-CM
P38.1	Other specified congenital infectious and parasitic diseases	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
P38.9	Congenital infectious or parasitic disease, unspecified	Diagnosis	ICD-10-CM
P39.0	Omphalitis with mild hemorrhage	Diagnosis	ICD-10-CM
P39.1	Omphalitis without hemorrhage	Diagnosis	ICD-10-CM
P39.2	Neonatal infective mastitis	Diagnosis	ICD-10-CM
P39.3	Neonatal conjunctivitis and dacryocystitis	Diagnosis	ICD-10-CM
P39.4	Intra-amniotic infection affecting newborn, NEC	Diagnosis	ICD-10-CM
P39.8	Neonatal urinary tract infection	Diagnosis	ICD-10-CM
P39.9	Neonatal skin infection	Diagnosis	ICD-10-CM
R50.2	Other specified infections specific to the perinatal period	Diagnosis	ICD-10-CM
R50.81	Infection specific to the perinatal period, unspecified	Diagnosis	ICD-10-CM
R50.81	Drug induced fever	Diagnosis	ICD-10-CM
R50.9	Fever presenting with conditions classified elsewhere	Diagnosis	ICD-10-CM
R50.9	Fever, unspecified	Diagnosis	ICD-10-CM
R65.20	Severe sepsis without septic shock	Diagnosis	ICD-10-CM
R65.21	Severe sepsis with septic shock	Diagnosis	ICD-10-CM
R78.81	Bacteremia	Diagnosis	ICD-10-CM

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

Nonproprietary Name	Brand Name
Antimicrobials	
acyclovir	acyclovir
acyclovir	Zovirax
acyclovir	Sitavig
acyclovir sodium	acyclovir sodium
acyclovir sodium/dextrose 5 % in water	acyclovir sod in dextrose 5 %
albendazole	albendazole
albendazole	Albenza
amikacin sulfate	amikacin
aminosalicylic acid	Paser
amoxicillin	amoxicillin
amoxicillin	Moxatag
amoxicillin/potassium clavulanate	amoxicillin-pot clavulanate
amoxicillin/potassium clavulanate	Augmentin ES-600
amoxicillin/potassium clavulanate	Augmentin
amoxicillin/potassium clavulanate	Augmentin XR
amphotericin B	amphotericin B
amphotericin B lipid complex	Abelcet
amphotericin B liposome	AmBisome
ampicillin sodium	ampicillin sodium
ampicillin sodium/sulbactam sodium	Unasyn
ampicillin sodium/sulbactam sodium	ampicillin-sulbactam
ampicillin trihydrate	ampicillin
anidulafungin	Eraxis(Water Diluent)
artemether/lumefantrine	Coartem
atovaquone	atovaquone
atovaquone	Mepron
atovaquone/proguanil HCl	Malarone
atovaquone/proguanil HCl	Malarone Pediatric
atovaquone/proguanil HCl	atovaquone-proguanil
azithromycin	Zithromax
azithromycin	Zithromax Z-Pak
azithromycin	Zithromax TRI-PAK
azithromycin	azithromycin
azithromycin	Zmax
aztreonam	Azactam
aztreonam	aztreonam
aztreonam/dextrose-water	Azactam in dextrose (iso-osm)
bacitracin	bacitracin
bacitracin	BACiiM
bedaquiline fumarate	Sirturo
benznidazole	benznidazole
capreomycin sulfate	Capastat
casprofungin acetate	Candidas

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

Nonproprietary Name	Brand Name
casprofungin acetate	casprofungin
cefaclor	cefaclor
cefadroxil	cefadroxil
cefazolin sodium	cefazolin
cefazolin sodium in 0.9 % sodium chloride	cefazolin in 0.9% sod chloride
cefazolin sodium/dextrose 5 % in water	cefazolin in dextrose 5 %
cefazolin sodium/dextrose, iso-osmotic	cefazolin in dextrose (iso-os)
cefazolin sodium/water for injection,sterile	cefazolin in sterile water
cefdinir	cefdinir
cefditoren pivoxil	Spectracef
cefditoren pivoxil	cefditoren pivoxil
cefepime HCl	cefepime
cefepime HCl	Maxipime
cefepime HCl in dextrose 5 % in water	cefepime in dextrose 5 %
cefepime HCl in iso-osmotic dextrose	cefepime in dextrose,iso-osm
cefixime	cefixime
cefixime	Suprax
cefotaxime sodium	Claforan
cefotaxime sodium	cefotaxime
cefotaxime sodium/dextrose, iso-osmotic	Claforan in dextrose(iso-osm)
cefotetan disodium	cefotetan
cefotetan disodium	Cefotan
cefotetan disodium in iso-osmotic dextrose	cefotetan in dextrose, iso-osm
cefoxitin sodium	cefoxitin
cefoxitin sodium/dextrose, iso-osmotic	cefoxitin in dextrose, iso-osm
cefpodoxime proxetil	cefpodoxime
cefprozil	cefprozil
ceftaroline fosamil acetate	Teflaro
ceftazidime	Tazicef
ceftazidime	ceftazidime
ceftazidime	Fortaz
ceftazidime in dextrose 5% and water	ceftazidime in D5W
ceftazidime sodium in iso-osmotic dextrose	Fortaz in dextrose 5 %
ceftazidime/avibactam sodium	Avycaz
ceftibuten	ceftibuten
ceftibuten	Cedax
ceftolozane sulfate/tazobactam sodium	Zerbaxa
ceftriaxone sodium	ceftriaxone
ceftriaxone sodium in iso-osmotic dextrose	ceftriaxone in dextrose,iso-os
cefuroxime axetil	cefuroxime axetil
cefuroxime axetil	Ceftin
cefuroxime sodium	cefuroxime sodium
cefuroxime sodium	Zinacef
cefuroxime sodium/water for injection,sterile	Zinacef in Sterile Water

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

Nonproprietary Name	Brand Name
cephalexin	cephalexin
cephalexin	Keflex
cephalexin	Daxbia
chloramphenicol sod succinate	chloramphenicol sod succinate
chloroquine phosphate	chloroquine phosphate
ciprofloxacin	Cipro
ciprofloxacin	ciprofloxacin
ciprofloxacin HCl	ciprofloxacin HCl
ciprofloxacin lactate	ciprofloxacin lactate
ciprofloxacin lactate/dextrose 5 % in water	ciprofloxacin in 5 % dextrose
ciprofloxacin lactate/dextrose 5 % in water	Cipro in D5W
clarithromycin	clarithromycin
clarithromycin	Biaxin
clindamycin HCl	Cleocin HCl
clindamycin HCl	clindamycin HCl
clindamycin palmitate HCl	Cleocin Pediatric
clindamycin palmitate HCl	clindamycin palmitate HCl
clindamycin palmitate HCl	Clindamycin Pediatric
clindamycin phosphate	Cleocin
clindamycin phosphate	clindamycin phosphate
clindamycin phosphate	Clin Single Use
clindamycin phosphate in 0.9 % sodium chloride	clindamycin in 0.9 % sod chlor
clindamycin phosphate/dextrose 5 % in water	clindamycin in 5 % dextrose
clindamycin phosphate/dextrose 5 % in water	Cleocin in 5 % dextrose
colistin (as colistimethate sodium)	colistin (colistimethate Na)
colistin (as colistimethate sodium)	Coly-Mycin M Parenteral
cycloserine	cycloserine
dalbavancin HCl	Dalvance
dapsone	dapsone
daptomycin	daptomycin
daptomycin	Cubicin
daptomycin	Cubicin RF
delafloxacin meglumine	Baxdela
demeclocycline HCl	demeclocycline
dicloxacillin sodium	dicloxacillin
doripenem	doripenem
doripenem	Doribax
doxycycline calcium	Vibramycin
doxycycline hyclate	doxycycline hyclate
doxycycline hyclate	Acticlate
doxycycline hyclate	Morgidox
doxycycline hyclate	Doryx
doxycycline hyclate	Doryx MPC
doxycycline hyclate	Doxy-100

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

Nonproprietary Name	Brand Name
doxycycline hyclate	Targadox
doxycycline hyclate	Soloxide
doxycycline hyclate/skin cleanser combination no.19	Morgidox 1x100
doxycycline hyclate/skin cleanser combination no.19	Morgidox 2x100
doxycycline hyclate/skin cleanser combination no.19	Morgidox 1x 50
doxycycline monohydrate	doxycycline monohydrate
doxycycline monohydrate	Oracea
doxycycline monohydrate	Monodox
doxycycline monohydrate	Avidoxy
doxycycline monohydrate	Mondoxyne NL
doxycycline monohydrate	Okebo
doxycycline monohydrate	Adoxa
doxycycline monohydrate/benzoyl peroxide	BenzoDox 30
doxycycline monohydrate/benzoyl peroxide	BenzoDox 60
doxycycline monohydrate/benzoyl peroxide	BenoxylDoxy 30
doxycycline monohydrate/benzoyl peroxide	BenoxylDoxy 60
doxycycline monohydrate/salicylic acid/octinoxate/zinc oxide	Avidoxy DK
ertapenem sodium	Invanz
ertapenem sodium	ertapenem
erythromycin base	erythromycin
erythromycin base	Ery-Tab
erythromycin base	PCE
erythromycin ethylsuccinate	erythromycin ethylsuccinate
erythromycin ethylsuccinate	E.E.S. 400
erythromycin ethylsuccinate	EryPed 400
erythromycin ethylsuccinate	EryPed 200
erythromycin ethylsuccinate	E.E.S. Granules
erythromycin lactobionate	Erythrocin
erythromycin stearate	Erythrocin (as stearate)
erythromycin stearate	erythromycin stearate
ethambutol HCl	ethambutol
ethambutol HCl	Myambutol
ethionamide	Trecator
famciclovir	famciclovir
famciclovir	Famvir
fidaxomicin	Difucid
fluconazole	Diflucan
fluconazole	fluconazole
fluconazole in dextrose, iso-osmotic	fluconazole in dextrose(iso-o)
fluconazole in sodium chloride, iso-osmotic	fluconazole in NaCl (iso-osm)
flucytosine	flucytosine
flucytosine	Ancobon
foscarnet sodium	Foscavir
foscarnet sodium	foscarnet

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

Nonproprietary Name	Brand Name
ganciclovir	ganciclovir
ganciclovir sodium	ganciclovir sodium
ganciclovir sodium	Cytovene
gemifloxacin mesylate	Factive
gentamicin sulfate	gentamicin
gentamicin sulfate in sodium chloride, iso-osmotic	gentamicin in NaCl (iso-osm)
gentamicin sulfate/PF	gentamicin sulfate (PF)
gentamicin sulfate/PF	gentamicin sulfate (ped) (PF)
gentamicin sulfate/sodium citrate	gentamicin-sodium citrate
griseofulvin ultramicrosize	griseofulvin ultramicrosize
griseofulvin ultramicrosize	Gris-PEG (ultramicrosize)
griseofulvin, microsize	griseofulvin microsize
griseofulvin, microsize	Grifulvin V
imipenem/cilastatin sodium	Primaxin IV
imipenem/cilastatin sodium	imipenem-cilastatin
interferon gamma-1b, recomb.	Actimmune
isavuconazonium sulfate	Cresemba
isoniazid	isoniazid
itraconazole	itraconazole
itraconazole	Sporanox
itraconazole	Sporanox Pulsepak
itraconazole	Tolsura
itraconazole	Onmel
ivermectin	Stromectol
ivermectin	ivermectin
ketoconazole	ketoconazole
letermovir	Prevymis
levofloxacin	levofloxacin
levofloxacin	Levaquin
levofloxacin/dextrose 5 % in water	levofloxacin in D5W
levofloxacin/dextrose 5 % in water	Levaquin in 5 % dextrose
lincomycin HCl	Lincocin
lincomycin HCl	lincomycin
linezolid	Zyvox
linezolid	linezolid
linezolid in 0.9 % sodium chloride	linezolid-0.9% sodium chloride
linezolid in dextrose 5 % in water	linezolid in dextrose 5%
mebendazole	Emverm
mefloquine HCl	mefloquine
meropenem	Merrem
meropenem	meropenem
meropenem in 0.9 % sodium chloride	meropenem-0.9% sodium chloride
meropenem/vaborbactam	Vabomere
metronidazole	Flagyl

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

Nonproprietary Name	Brand Name
metronidazole	metronidazole
metronidazole in sodium chloride	Metro I.V.
metronidazole in sodium chloride	metronidazole in NaCl (iso-os)
micafungin sodium	Mycamine
micafungin sodium	micafungin
miltefosine	Impavido
minocycline HCl	minocycline
minocycline HCl	Ximino
minocycline HCl	Minocin
minocycline HCl	CoreMino
minocycline HCl	Minolira ER
minocycline HCl	Solodyn
moxifloxacin HCl	moxifloxacin
moxifloxacin HCl	Avelox
moxifloxacin HCl	Avelox ABC Pack
moxifloxacin HCl in sodium acetate and sulfate,water,iso-osm	moxifloxacin-sod.ace,sul-water
moxifloxacin HCl in sodium chloride, iso-osmotic	Avelox in NaCl (iso-osmotic)
moxifloxacin HCl in sodium chloride, iso-osmotic	moxifloxacin-sod.chloride(iso)
nafcillin in dextrose, iso-osmotic	nafcillin in dextrose iso-osm
nafcillin sodium	nafcillin
neomycin sulfate	neomycin
nitazoxanide	Alinia
nystatin	nystatin
ofloxacin	ofloxacin
oritavancin diphosphate	Orbactiv
oseltamivir phosphate	Tamiflu
oseltamivir phosphate	oseltamivir
oxacillin sodium	oxacillin
oxacillin sodium in iso-osmotic dextrose	oxacillin in dextrose(iso-osm)
paromomycin sulfate	paromomycin
penicillin G benzathine	Bicillin L-A
penicillin G benzathine/penicillin G procaine	Bicillin C-R
penicillin G potassium	Pfizerpen-G
penicillin G potassium	penicillin G potassium
penicillin G potassium/dextrose-water	penicillin G pot in dextrose
penicillin G procaine	penicillin G procaine
penicillin G sodium	penicillin G sodium
penicillin V potassium	penicillin V potassium
pentamidine isethionate	pentamidine
pentamidine isethionate	Pentam
pentamidine isethionate	Nebupent
peramivir/PF	Rapivab (PF)
piperacillin and tazobactam in dextrose, iso-osmotic	Zosyn in dextrose (iso-osm)
piperacillin sodium/tazobactam sodium	piperacillin-tazobactam

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

Nonproprietary Name	Brand Name
piperacillin sodium/tazobactam sodium	Zosyn
polymyxin B sulfate	polymyxin B sulfate
posaconazole	Noxafil
posaconazole	posaconazole
praziquantel	praziquantel
praziquantel	Biltricide
primaquine phosphate	primaquine
pyrantel pamoate	Pinworm Treatment
pyrantel pamoate	Reese's Pinworm Medicine
pyrantel pamoate	PinAway
pyrantel pamoate	Pin-X
pyrazinamide	pyrazinamide
pyrimethamine	pyrimethamine
pyrimethamine	Daraprim
quinupristin/dalfopristin	Synercid
ribavirin	Virazole
ribavirin	ribavirin
rifabutin	Mycobutin
rifabutin	rifabutin
rifampin	Rifadin
rifampin	rifampin
rifampin/isoniazid	Rifamate
rifampin/isoniazid/pyrazinamide	Rifater
rifapentine	Priftin
rifaximin	Xifaxan
rimantadine HCl	rimantadine
rimantadine HCl	Flumadine
secnidazole	Solosec
streptomycin sulfate	streptomycin
sulfadiazine	sulfadiazine
sulfamethoxazole/trimethoprim	sulfamethoxazole-trimethoprim
sulfamethoxazole/trimethoprim	Sulfatrim
sulfamethoxazole/trimethoprim	Bactrim
sulfamethoxazole/trimethoprim	Bactrim DS
tedizolid phosphate	Sivextro
telavancin HCl	Vibativ
telithromycin	Ketek
terbinafine HCl	terbinafine HCl
terbinafine HCl	Lamisil
tetracycline HCl	tetracycline
ticarcillin disodium/potassium clavulanate	ticarcillin-K clavulanat(bulk)
tigecycline	Tygalil
tigecycline	tigecycline
tinidazole	tinidazole

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

Nonproprietary Name	Brand Name
tinidazole	Tindamax
tobramycin sulfate	tobramycin sulfate
tobramycin sulfate/sodium chloride	tobramycin in 0.9 % NaCl
trimethoprim	trimethoprim
trimethoprim	Primsol
trimethoprim	Trimplex
valacyclovir HCl	Valtrex
valacyclovir HCl	valacyclovir
valganciclovir HCl	Valcyte
valganciclovir HCl	valganciclovir
vancomycin HCl	vancomycin
vancomycin HCl	Vancocin
vancomycin HCl	Firvanq
vancomycin in 0.9 % sodium chloride	vancomycin in 0.9 % sodium chl
vancomycin in 5 % dextrose in water	vancomycin in dextrose 5 %
voriconazole	Vfend
voriconazole	Vfend IV
voriconazole	voriconazole

Appendix G. List of Healthcare Common Procedure Coding System (HCPCS) Codes, Current Procedural Terminology, Fourth Edition (CPT-4) and Second Edition (CPT Category II) Used to Define Outcome Criteria in this Request

Code	Description	Code Category	Code Type
Antimicrobials			
94642	Aerosol inhalation of pentamidine for pneumocystis carinii pneumonia treatment or prophylaxis	Procedure	CPT-4
99563	Home administration of aerosolized pentamidine, per visit	Procedure	CPT-4
4041F	Documentation of order for cefazolin OR cefuroxime for antimicrobial prophylaxis (PERI 2)	Procedure	CPT Category II
4047F	Documentation of order for prophylactic parenteral antibiotics to be given within 1 hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required) (PERI 2)	Procedure	CPT Category II
4048F	Documentation that administration of prophylactic parenteral antibiotic was initiated within 1 hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required) as ordered (PERI 2)	Procedure	CPT Category II
4153F	Combination peginterferon and ribavirin therapy prescribed (HEP-C)	Procedure	CPT Category II
C1024	Quinopristin/dalfopristin, 10ml, synercid iv	Procedure	HCPCS
C9001	Linezolid injection, per 200mg	Procedure	HCPCS
C9019	Injection, caspofungin acetate, 5 mg	Procedure	HCPCS
C9116	Injection, ertapenem sodium, per 1 gram vial	Procedure	HCPCS
C9124	Injection, daptomycin, per 1 mg	Procedure	HCPCS
C9227	Injection, micafungin sodium, per 1 mg	Procedure	HCPCS
C9228	Injection, tigecycline, per 1 mg	Procedure	HCPCS
C9241	Injection, doripenem, 10 mg	Procedure	HCPCS
C9258	Injection, telavancin, 10 mg	Procedure	HCPCS
C9282	Injection, ceftaroline fosamil, 10 mg	Procedure	HCPCS
C9412	Ganciclovir, 4.5 mg, long-acting implant, brand name	Procedure	HCPCS
C9443	Injection, dalbavancin, 10 mg	Procedure	HCPCS
C9446	Injection, tedizolid phosphate, 1 mg	Procedure	HCPCS
C9451	Injection, peramivir, 1 mg	Procedure	HCPCS
C9452	Injection, ceftolozane 50 mg and tazobactam 25 mg	Procedure	HCPCS
C9456	Injection, isavuconazonium sulfate, 1 mg	Procedure	HCPCS
G8152	Patient documented to have received antibiotic prophylaxis one hour prior to incision time (2 hours for vancomycin)	Procedure	HCPCS
G8191	Clinician documented to have given order for prophylactic antibiotic to be given within one hour (if vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8192	Clinician documented to have given the prophylactic antibiotic within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8195	Clinician documented to have given the prophylactic antibiotic within one hour (if vancomycin, two hours) prior to the surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8197	Patient documented to have order for prophylactic antibiotic to be given within one hour (if vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS

Appendix G. List of Healthcare Common Procedure Coding System (HCPCS) Codes, Current Procedural Terminology, Fourth Edition (CPT-4) and Second Edition (CPT Category II) Used to Define Outcome Criteria in this Request

Code	Description	Code Category	Code Type
G8198	Patient documented to have order for cefazolin or cefuroxime for antimicrobial prophylaxis	Procedure	HCPCS
G8199	Clinician documented to have given cefazolin or cefuroxime for antimicrobial prophylaxis	Procedure	HCPCS
G8503	Documentation that prophylactic antibiotic was given within one hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8504	Documentation of order for prophylactic antibiotics to be given within one hour (if fluoroquinolone or vancomycin, two hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8527	Documentation of order for cefazolin or cefuroxime for antimicrobial prophylaxis	Procedure	HCPCS
G8629	Documentation of order for prophylactic parenteral antibiotic to be given within one hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required)	Procedure	HCPCS
G8630	Documentation that administration of prophylactic parenteral antibiotics was initiated within one hour (if fluoroquinolone or vancomycin, 2 hours) prior to surgical incision (or start of procedure when no incision is required), as ordered	Procedure	HCPCS
G9018	Zanamivir, inhalation powder, administered through inhaler, per 10 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9019	Oseltamivir phosphate, oral, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9020	Rimantadine HCl, oral, per 100 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9034	Zanamivir, inhalation powder, administered through inhaler, brand, per 10 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9035	Oseltamivir phosphate, oral, brand, per 75 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9036	Rimantadine HCl, oral, brand, per 100 mg (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9315	Documentation amoxicillin, with or without clavulanate, prescribed as a first line antibiotic at the time of diagnosis	Procedure	HCPCS
J0120	Injection, tetracycline, up to 250 mg	Procedure	HCPCS
J0133	Injection, acyclovir, 5 mg	Procedure	HCPCS
J0200	Injection, alatrofloxacin mesylate, 100 mg	Procedure	HCPCS
J0278	Injection, amikacin sulfate, 100 mg	Procedure	HCPCS
J0285	Injection, amphotericin B, 50 mg	Procedure	HCPCS
J0286	Injection, amphotericin b, any lipid formulation, 50 mg	Procedure	HCPCS
J0287	Injection, amphotericin B lipid complex, 10 mg	Procedure	HCPCS
J0288	Injection, amphotericin B cholesteryl sulfate complex, 10 mg	Procedure	HCPCS
J0289	Injection, amphotericin B liposome, 10 mg	Procedure	HCPCS
J0290	Injection, ampicillin sodium, 500 mg	Procedure	HCPCS
J0295	Injection, ampicillin sodium/sulbactam sodium, per 1.5 g	Procedure	HCPCS
J0348	Injection, anidulafungin, 1 mg	Procedure	HCPCS

Appendix G. List of Healthcare Common Procedure Coding System (HCPCS) Codes, Current Procedural Terminology, Fourth Edition (CPT-4) and Second Edition (CPT Category II) Used to Define Outcome Criteria in this Request

Code	Description	Code Category	Code Type
J0390	Injection, chloroquine HCl, up to 250 mg	Procedure	HCPCS
J0456	Injection, azithromycin, 500 mg	Procedure	HCPCS
J0530	Injection, penicillin G benzathine and penicillin G procaine, up to 600,000 units	Procedure	HCPCS
J0540	Injection, penicillin G benzathine and penicillin G procaine, up to 1,200,000 units	Procedure	HCPCS
J0550	Injection, penicillin G benzathine and penicillin G procaine, up to 2,400,000 units	Procedure	HCPCS
J0558	Injection, penicillin G benzathine and penicillin G procaine, 100,000 units	Procedure	HCPCS
J0559	Injection, penicillin G benzathine and penicillin G procaine, 2500 units	Procedure	HCPCS
J0560	Injection, penicillin G benzathine, up to 600,000 units	Procedure	HCPCS
J0561	Injection, penicillin G benzathine, 100,000 units	Procedure	HCPCS
J0580	Injection, penicillin G benzathine, up to 2,400,000 units	Procedure	HCPCS
J0637	Injection, caspofungin acetate, 5 mg	Procedure	HCPCS
J0690	Injection, cefazolin sodium, 500 mg	Procedure	HCPCS
J0692	Injection, cefepime HCl, 500 mg	Procedure	HCPCS
J0694	Injection, ceftaxime sodium, 1 g	Procedure	HCPCS
J0695	Injection, ceftolozane 50 mg and tazobactam 25 mg	Procedure	HCPCS
J0696	Injection, ceftriaxone sodium, per 250 mg	Procedure	HCPCS
J0697	Injection, sterile cefuroxime sodium, per 750 mg	Procedure	HCPCS
J0698	Injection, cefotaxime sodium, per g	Procedure	HCPCS
J0712	Injection, ceftaroline fosamil, 10 mg	Procedure	HCPCS
J0713	Injection, ceftazidime, per 500 mg	Procedure	HCPCS
J0714	Injection, ceftazidime and avibactam, 0.5 g/0.125 g	Procedure	HCPCS
J0720	Injection, chloramphenicol sodium succinate, up to 1 g	Procedure	HCPCS
J0743	Injection, cilastatin sodium; imipenem, per 250 mg	Procedure	HCPCS
J0744	Injection, ciprofloxacin for intravenous infusion, 200 mg	Procedure	HCPCS
J0875	Injection, dalbavancin, 5 mg	Procedure	HCPCS
J0878	Injection, daptomycin, 1 mg	Procedure	HCPCS
J1267	Injection, doripenem, 10 mg	Procedure	HCPCS
J1335	Injection, ertapenem sodium, 500 mg	Procedure	HCPCS
J1362	Injection, erythromycin gluceptate, per 250 mg	Procedure	HCPCS
J1364	Injection, erythromycin lactobionate, per 500 mg	Procedure	HCPCS
J1450	Injection, fluconazole, 200 mg	Procedure	HCPCS
J1455	Injection, fosfarnet sodium, per 1,000 mg	Procedure	HCPCS
J1570	Injection, ganciclovir sodium, 500 mg	Procedure	HCPCS
J1580	Injection, garamycin, gentamicin, up to 80 mg	Procedure	HCPCS
J1833	Injection, isavuconazonium, 1 mg	Procedure	HCPCS
J1835	Injection, itraconazole, 50 mg	Procedure	HCPCS
J2020	Injection, linezolid, 200 mg	Procedure	HCPCS
J2185	Injection, meropenem, 100 mg	Procedure	HCPCS
J2248	Injection, micafungin sodium, 1 mg	Procedure	HCPCS
J2265	Injection, minocycline HCl, 1 mg	Procedure	HCPCS
J2280	Injection, moxifloxacin, 100 mg	Procedure	HCPCS
J2460	Injection, oxytetracycline HCl, up to 50 mg	Procedure	HCPCS
J2510	Injection, penicillin G procaine, aqueous, up to 600,000 units	Procedure	HCPCS

Appendix G. List of Healthcare Common Procedure Coding System (HCPCS) Codes, Current Procedural Terminology, Fourth Edition (CPT-4) and Second Edition (CPT Category II) Used to Define Outcome Criteria in this Request

Code	Description	Code Category	Code Type
J2540	Injection, penicillin G potassium, up to 600,000 units	Procedure	HCPCS
J2543	Injection, piperacillin sodium/tazobactam sodium, 1 g/0.125 g (1.125 g)	Procedure	HCPCS
J2545	Pentamidine isethionate, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, per 300 mg	Procedure	HCPCS
J2547	Injection, peramivir, 1 mg	Procedure	HCPCS
J2700	Injection, oxacillin sodium, up to 250 mg	Procedure	HCPCS
J2770	Injection, quinupristin/dalfopristin, 500 mg (150/350)	Procedure	HCPCS
J3000	Injection, streptomycin, up to 1 g	Procedure	HCPCS
J3090	Injection, tedizolid phosphate, 1 mg	Procedure	HCPCS
J3095	Injection, telavancin, 10 mg	Procedure	HCPCS
J3243	Injection, tigecycline, 1 mg	Procedure	HCPCS
J3260	Injection, tobramycin sulfate, up to 80 mg	Procedure	HCPCS
J3370	Injection, vancomycin HCl, 500 mg	Procedure	HCPCS
J3465	Injection, voriconazole, 10 mg	Procedure	HCPCS
J7310	Ganciclovir, 4.5 mg, long-acting implant	Procedure	HCPCS
J7676	Pentamidine isethionate, inhalation solution, compounded product, administered through DME, unit dose form, per 300 mg	Procedure	HCPCS
J7682	Tobramycin, inhalation solution, FDA-approved final product, noncompounded, unit dose form, administered through DME, per 300 mg	Procedure	HCPCS
J7685	Tobramycin, inhalation solution, compounded product, administered through DME, unit dose form, per 300 mg	Procedure	HCPCS
K0453	INJ AMPHOTERICIN B 50 MG	Procedure	HCPCS
Q0144	Azithromycin dihydrate, oral, capsules/powder, 1 g	Procedure	HCPCS
Q4075	Injection, acyclovir, 5 mg	Procedure	HCPCS
S0016	Injection, amikacin sulfate, 500 mg	Procedure	HCPCS
S0024	Injection, ciprofloxacin, 200 mg	Procedure	HCPCS
S0029	Injection, fluconazole, 400 mg	Procedure	HCPCS
S0030	Injection, metronidazole, 500 mg	Procedure	HCPCS
S0032	Injection, nafcillin sodium, 2 g	Procedure	HCPCS
S0034	Injection, ofloxacin, 400 mg	Procedure	HCPCS
S0039	Injection, sulfamethoxazole and trimethoprim, 10 ml	Procedure	HCPCS
S0040	Injection, ticarcillin disodium and clavulanate potassium, 3.1 g	Procedure	HCPCS
S0071	Injection, acyclovir sodium, 50 mg	Procedure	HCPCS
S0072	Injection, amikacin sulfate, 100 mg	Procedure	HCPCS
S0073	Injection, aztreonam, 500 mg	Procedure	HCPCS
S0077	Injection, clindamycin phosphate, 300 mg	Procedure	HCPCS
S0080	Injection, pentamidine isethionate, 300 mg	Procedure	HCPCS
S0081	Injection, piperacillin sodium, 500 mg	Procedure	HCPCS
S0096	Injection, itraconazole, 200 mg	Procedure	HCPCS
S0143	Aztreonam, inhalation solution administered through DME, concentrated form, per g	Procedure	HCPCS

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

Code	Description	Code Category	Code Type
Crohn's Disease			
555	Regional enteritis	Diagnosis	ICD-9-CM
555.0	Regional enteritis of small intestine	Diagnosis	ICD-9-CM
555.1	Regional enteritis of large intestine	Diagnosis	ICD-9-CM
555.2	Regional enteritis of small intestine with large intestine	Diagnosis	ICD-9-CM
555.9	Regional enteritis of unspecified site	Diagnosis	ICD-9-CM
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

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

Code	Description	Code Category	Code Type
Ulcerative Colitis			
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
K51.5	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

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

Code	Description	Code Category	Code Type
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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
Ustekinumab			
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Crohn's Disease			
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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
555	Regional enteritis	Diagnosis	ICD-9-CM
555.0	Regional enteritis of small intestine	Diagnosis	ICD-9-CM
555.1	Regional enteritis of large intestine	Diagnosis	ICD-9-CM
555.2	Regional enteritis of small intestine with large intestine	Diagnosis	ICD-9-CM
555.9	Regional enteritis of unspecified site	Diagnosis	ICD-9-CM
Rheumatoid Arthritis			
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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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 system	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 sy	Diagnosis	ICD-10-CM
M05.62	Rheumatoid arthritis of elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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

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Code	Description	Code Category	Code Type
M05.75	Rheumatoid arthritis with rheumatoid factor of hip without organ or systems involver	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems inv	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems invc	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or syste	Diagnosis	ICD-10-CM
M05.76	Rheumatoid arthritis with rheumatoid factor of knee without organ or systems involv	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems ii	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems in	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or sys	Diagnosis	ICD-10-CM
M05.77	Rheumatoid arthritis with rheumatoid factor of ankle and foot without organ or syste	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or s'	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without or	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or system	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
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

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Code	Description	Code Category	Code Type
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.0	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
M06.1	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
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

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Code	Description	Code Category	Code Type
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

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Code	Description	Code Category	Code Type
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
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
M06.8	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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
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
M08.20	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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
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
M08.4	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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
Psoriatic Arthritis			
696.0	Psoriatic arthritis (PsA) Psoriatic arthropathy	Diagnosis	ICD-9-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
Psoriasis			
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
L40.8	Other psoriasis	Diagnosis	ICD-10-CM
L40.9	Psoriasis, unspecified	Diagnosis	ICD-10-CM
Hidradentis Suppurativa			
705.83	Hidradentis	Diagnosis	ICD-9-CM
L73.2	Hidradentis	Diagnosis	ICD-10-CM
Ankylosing Spondylitis			
720.0	Ankylosing spondylitis	Diagnosis	ICD-9-CM
M08.1	Juvenile 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

Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
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

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

Nonproprietary Name	Brand Name
Ustekinumab	
ustekinumab	Stelara

Appendix K. List of Nonproprietary and Brand Names of Medical Products Used to Define Censoring Criteria in this Request

Nonproprietary Name	Brand Name
Ustekinumab	
ustekinumab	Stelara
Certolizumab Pegol	
certolizumab pegol	Cimzia Powder for Reconst
certolizumab pegol	Cimzia
certolizumab pegol	Cimzia Starter Kit
Golimumab	
golimumab	Simponi
golimumab	Simponi ARIA
Natalizumab	
natalizumab	Tysabri
Tofacitinib Citrate	
tofacitinib citrate	Xeljanz XR
tofacitinib citrate	Xeljanz
Infliximab	
infliximab-abda	Renflexis
infliximab-dyyb	Inflectra
infliximab-axxq	Avsola
infliximab	Remicade
Adalimumab	
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira(CF) Pen Crohns-Ulcerative Colitis-HS
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-Ulcerative Colitis-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS
Vedolizumab	
vedolizumab	Entyvio

Appendix L. List of Healthcare Common HCPCS Coding System (HCPCS) Codes Used to Define Censoring Criteria in this Request

Code	Description	Code Category	Code Type
Ustekinumab			
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
Infliximab			
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
Vedolizumab			
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
Adalimumab			
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
Certolizumab Pegol			
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
Golimumab			
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
Natalizumab			
C9126	Injection natalizumab per 5 mg	Procedure	HCPCS
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS

Appendix M. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
Ulcerative Colitis			
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
K51.5	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

Appendix M. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
Infliximab			
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
Certolizumab Pegol			
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
Golimumab			
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
Natalizumab			
C9126	Injection natalizumab per 5 mg	Procedure	HCPCS
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS
Adalimumab			
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
Vedolizumab			
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS

Appendix N. List of Nonproprietary and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Nonproprietary Name	Brand Name
Certolizumab Pegol	
certolizumab pegol	Cimzia Powder for Reconst
certolizumab pegol	Cimzia
certolizumab pegol	Cimzia Starter Kit
Golimumab	
golimumab	Simponi
golimumab	Simponi ARIA
Natalizumab	
natalizumab	Tysabri
Tofacitinib Citrate	
tofacitinib citrate	Xeljanz XR
tofacitinib citrate	Xeljanz
Infliximab	
infliximab-abda	Renflexis
infliximab-dyyb	Inflectra
infliximab-axxq	Avsola
infliximab	Remicade
Adalimumab	
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira(CF) Pen Crohns-Ulcerative Colitis-HS
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-Ulcerative Colitis-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS
Vedolizumab	
vedolizumab	Entyvio

Appendix O. Specifications Defining Parameters for Run 1 in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool [version 10.1.0] to estimate rates of utilization among patients with exposure to ustekinumab or Comparator Drugs in the Sentinel Distributed Database (SDD).

Query period: October 1, 2017 - March 31, 2020
Coverage requirement: *Medical & Drug Coverage
Pre-index enrollment requirement: 183 days
Enrollment gap: 45 days
Age groups: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+ years
Stratifications: Age Group, Sex, Calendar Year
Censor output categorization: Censoring day categories: 0-90, 91-180, 181-270, 271-364, 365+ days
Envelope macro: *No reclassification
Freeze data: No

Exposure									
Scenario	Cohort Description	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Exposure Washout	Days Supply if Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
1	Crohn's disease, ustekinumab, No outcome	ustekinumab	*First valid exposure episodes during query period;	183 days (via exclusion criteria)	ustekinumab (via exclusion criteria)	*Evaluation period should search for only evidence of a dispensing date (via exclusion criteria)		56 days (8 weeks)	56 days (8 weeks)
2	Crohn's disease, Comparators, SI composite	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date		56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
3	Crohn's disease, Comparators, SI composite w/o nosocomial req.	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date		56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Exposure						
		Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
4	Crohn's disease, Comparators, SI composite, Blackout	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
5	Crohn's disease, Comparators, Acute meningitis	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
6	Crohn's disease, Comparators, Acute osteomyelitis	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
7	Crohn's disease, Comparators, Bacteremia	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Exposure						
		Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
8	Crohn's disease, Comparators, Pneumonia	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
9	Crohn's disease, Comparators, Pyelonephritis	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
10	Crohn's disease, Comparators, Gastrointestinal Infection	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
11	Crohn's disease, Comparators, Skin or soft tissue infection	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

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Scenario	Cohort Description	Exposure						
		Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
12	Ulcerative colitis, Comparators, SI composite	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
13	Ulcerative colitis, Comparators, SI composite w/0 nosocomial req.	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
14	Ulcerative colitis, Comparators, SI composite, Blackout	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
15	Ulcerative colitis, Comparators, Acute meningitis	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

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Scenario	Cohort Description	Exposure						
		Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
16	Ulcerative colitis, Comparators, Acute osteomyeliti	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
17	Ulcerative colitis, Comparators, Bacteremia	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
18	Ulcerative colitis, Comparators, Pneumonia	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
19	Ulcerative colitis, Comparators, Pyelonephritis	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

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Scenario	Cohort Description	Exposure						
		Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension
20	Ulcerative colitis, Comparators, Gastrointestinal Infection	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)
21	Ulcerative colitis, Comparators, Skin or soft tissue infection	infliximab OR adalimumab OR vedolizumab	*First valid exposure episodes during query period;	183 days	specific drug (infliximab, adalimumab, or vedolizumab) that defined an individual's index dispensing	*Evaluation period should search for only evidence of a dispensing date	56 days (8 weeks) adalimumab: 28 days (4 weeks)	56 days (8 weeks) adalimumab: 28 days (4 weeks)

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Scenario	Cohort Description	Exposure				Censor Treatment Episode at Evidence of:
		Care Setting	Principal Diagnosis Position	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	
1	Crohn's disease, ustekinumab, No outcome	*Any care setting	*Any	56 days (8 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
2	Crohn's disease, Comparators, SI composite	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
3	Crohn's disease, Comparators, SI composite w/o nosocomial req.	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
4	Crohn's disease, Comparators, SI composite, Blackout	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
5	Crohn's disease, Comparators, Acute meningitis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

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Scenario	Cohort Description	Care Setting	Principal Diagnosis Position	Exposure		Censor Treatment Episode at Evidence of:
				Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	
6	Crohn's disease, Comparators, Acute osteomyelitis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
7	Crohn's disease, Comparators, Bacteremia	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
8	Crohn's disease, Comparators, Pneumonia	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
9	Crohn's disease, Comparators, Pyelonephritis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

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Scenario	Cohort Description	Care Setting	Principal Diagnosis Position	Exposure		Censor Treatment Episode at Evidence of:
				Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	
10	Crohn's disease, Comparators, GastrointestiN/Al Infection	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
11	Crohn's disease, Comparators, Skin or soft tissue infection	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
12	Ulcerative colitis, Comparators, SI composite	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
13	Ulcerative colitis, Comparators, SI composite w/O nosocomial req.	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

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Scenario	Cohort Description	Exposure				Censor Treatment Episode at Evidence of:
		Care Setting	Principal Diagnosis Position	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	
14	Ulcerative colitis, Comparators, SI composite, Blackout	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
15	Ulcerative colitis, Comparators, Acute meningitis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
16	Ulcerative colitis, Comparators, Acute osteomyelitis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
17	Ulcerative colitis, Comparators, Bacteremia	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

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Scenario	Cohort Description	Exposure				Censor Treatment Episode at Evidence of:
		Care Setting	Principal Diagnosis Position	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	
18	Ulcerative colitis, Comparators, Pneumonia	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
19	Ulcerative colitis, Comparators, Pyelonephritis	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
20	Ulcerative colitis, Comparators, GastrointestiN/Al Infection	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)
21	Ulcerative colitis, Comparators, Skin or soft tissue infection	*Any care setting	*Any	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A	*Death; *DP end date; *Query end date; *Disenrollment; Use of ustekinumab; Use of comparator drug (certolizumab pegol, golimumab, N/Atalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
1	Crohn's disease, Ustekinumab, No outcome	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks)	N/A
2	Crohn's disease, Comparators, SI composite	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
3	Crohn's disease, Comparators, SI composite w/o nosocomial req.	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
4	Crohn's disease, Comparators, SI composite, Blackout	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
5	Crohn's disease, Comparators, Acute meningitis	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
6	Crohn's disease, Comparators, Acute osteomyelitis	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
7	Crohn's disease, Comparators, Bacteremia	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
8	Crohn's disease, Comparators, Pneumonia	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
9	Crohn's disease, Comparators, Pyelonephritis	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
10	Crohn's disease, Comparators, Gastrointestinal Infection	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

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Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
11	Crohn's disease, Comparators, Skin or soft tissue infection	Crohn's disease	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
12	Ulcerative colitis, Comparators, SI composite	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
13	Ulcerative colitis, Comparators, SI composite w/0 nosocomial req.	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
14	Ulcerative colitis, Comparators, SI composite, Blackout	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
15	Ulcerative colitis, Comparators, Acute meningitis	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
16	Ulcerative colitis, Comparators, Acute osteomyeliti	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
17	Ulcerative colitis, Comparators, Bacteremia	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
18	Ulcerative colitis, Comparators, Pneumonia	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
19	Ulcerative colitis, Comparators, Pyelonephritis	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A
20	Ulcerative colitis, Comparators, Gastrointestinal Infection	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Inclusion/Exclusion Criteria									
		Inclusion/Exclusion Group	Criteria	Care Setting	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	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs
21	Ulcerative colitis, Comparators, Skin or soft tissue infection	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Crohn's disease Psoriasis Psoriatic arthritis Rheumatoid arthritis Ankylosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
		Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	-1 days	*Washout lookback period should search for evidence of a dispensing date	1	56 days (8 weeks) adalimumab: 28 days (4 weeks)	N/A

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Event	Incident Event Washout Period	Incident with Respect to	Care Setting	Event Outcome					
						Principal Diagnosis Position	Exclude Evidence of Days Supply if Event Includes	Washout Days	Event De-Duplication	Forced Supply to Attach to Dispensings	Blackout Period
1	Crohn's disease, Ustekinumab, No outcome	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Crohn's disease, Comparators, SI composite	Serious infections composite index (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
3	Crohn's disease, Comparators, SI composite w/o nosocomial req.	Serious infections composite index, without nosocomial requirement (no combo)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
4	Crohn's disease, Comparators, SI composite, Blackout	Serious infections composite index (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	30 days
5	Crohn's disease, Comparators, Acute meningitis	Acute meningitis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
6	Crohn's disease, Comparators, Acute osteomyelitis	Acute osteomyelitis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Event	Incident Event Washout Period	Incident with Respect to	Care Setting	Event Outcome					
						Principal Diagnosis Position	Exclude Evidence of Days Supply if Event Includes	Days Washout	Event De-Duplication	Forced Supply to Attach to Dispensings	Blackout Period
7	Crohn's disease, Comparators, Bacteremia	Bacteremia (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
8	Crohn's disease, Comparators, Pneumonia	Pneumonia (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
9	Crohn's disease, Comparators, Pyelonephritis	Pyelonephritis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
10	Crohn's disease, Comparators, Gastrointestinal Infection	Serious Gastrointestinal Infection (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
11	Crohn's disease, Comparators, Skin or soft tissue infection	Skin or soft tissue infection (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
12	Ulcerative colitis, Comparators, SI composite	Serious infections composite index	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Event	Incident Event Washout Period	Incident with Respect to	Care Setting	Event Outcome					
						Principal Diagnosis Position	Exclude Evidence of Days Supply if Event Includes	Days Washout	Event De-Duplication	Forced Supply to Attach to Dispensings	Blackout Period
13	Ulcerative colitis, Comparators, SI composite w/0 nosocomial req.	Serious infections composite index, without nosocomial requirement (no combo)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
14	Ulcerative colitis, Comparators, SI composite, Blackout	Serious infections composite index	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	30 days
15	Ulcerative colitis, Comparators, Acute meningitis	Acute meningitis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
16	Ulcerative colitis, Comparators, Acute osteomyelitis	Acute osteomyelitis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
17	Ulcerative colitis, Comparators, Bacteremia	Bacteremia (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None
18	Ulcerative colitis, Comparators, Pneumonia	Pneumonia (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A		*De-duplicates occurrences of the same event group on the same day	N/A	None

Appendix O. Specifications Defining Parameters for Run 1 in this Request

Scenario	Cohort Description	Event	Incident Event Washout Period	Incident with Respect to	Care Setting	Event Outcome				
						Principal Diagnosis Position	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Event De-Duplication	Forced Supply to Attach to Dispensings	Blackout Period
19	Ulcerative colitis, Comparators, Pyelonephritis	Pyelonephritis (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A	*De-duplicates occurrences of the same event group on the same day	N/A	None
20	Ulcerative colitis, Comparators, Gastrointestinal Infection	Serious Gastrointestinal Infection (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A	*De-duplicates occurrences of the same event group on the same day	N/A	None
21	Ulcerative colitis, Comparators, Skin or soft tissue infection	Skin or soft tissue infection (See Table 2 for more details)	0 days	N/A	*Inpatient hospital stay	*Any	N/A	*De-duplicates occurrences of the same event group on the same day	N/A	None

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

Appendix P. Specifications Defining Parameters for Run 2 in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool [version 10.1.0] to estimate rates of utilization among patients with exposure to ustekinumab or Comparator Drugs in the Sentinel Distributed Database (SDD).

Query period: November 1, 2019 - March 31, 2020
Coverage requirement: *Medical & Drug Coverage
Pre-index enrollment requirement: 183 days
Enrollment gap: 45 days
Age groups: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+ years
Stratifications: Age Group, Sex, Calendar Year
Censor output categorization: Censoring day categories: 0-90, 91-180, 181-270, 271-364, 365+ days
Envelope macro: *No reclassification
Freeze data: No

Exposure

Scenario	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Incident with Respect to:	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	Treatment Episode Gap	Exposure Episode Extension	Minimum Exposure Episode Duration
1	ustekinumab	*First valid exposure episodes during query period;	183 days (via exclusion criteria)	ustekinumab (via exclusion criteria)	*Evaluation period should search for only evidence of a dispensing date (via exclusion criteria)	56 days (8 weeks)	56 days (8 weeks)	None

Appendix P. Specifications Defining Parameters for Run 2 in this Request

Scenario	Exposure						
	Minimum Days Supplied	Maximum Exposure Episode Duration	Care Setting	Principal Diagnosis Position	Forced Supply to Attach to Procedures	Forced Supply to Attach to NDCs	Censor Treatment Episode at Evidence of:
1	None	None	*Any care setting	*Any	56 days (8 weeks)	NA	*Death; *DP end date; *Query end date; *Disenrollment; Use of comparator drug (certolizumab pegol, golimumab, natalizumab, tofacitinib, infliximab, adalimumab, or vedolizumab)

Appendix P. Specifications Defining Parameters for Run 2 in this Request

Scenario	Inclusion/ Exclusion Group	Criteria	Care Setting	Principal Diagnosis Position	Evaluation Period Start	Evaluation Period End	Inclusion/Exclusion Criteria			
							Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Number of Instances the Criteria Should be Found in Evaluation Period	Forced Supply to Attach to Dispensings	Forced Supply to Attach to Dispensings
1	Ulcerative colitis	*Inclusion	*Any care setting	Any	-183 days	0 days	N/A	1	N/A	N/A
	Crohn's disease Psoriasis Psoriatic arthritis Rheumatod arthritis Anklyosing spondylitis Juvenile rheumatoid arthritis Hidradenitis suppurativa	*Exclusion	*Any care setting	Any	-183 days	1 days	N/A	1	N/A	N/A
	Ustekinumab	*Exclusion	*Any care setting	Any	-183 days	2 days	*De-duplicates occurrences of the same event group on the same day	1	56 days (8 weeks)	N/A

Appendix P. Specifications Defining Parameters for Run 2 in this Request

Scenario	Event Outcome								
	Event	Incident Event Washout Period	Incident with Respect to:	Care Setting	Principal Diagnosis Position	Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Event De-Duplication	Forced Supply to Attach to Dispensings	Blackout Period
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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