

Disclaimer

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

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

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

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

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Overview for Request: cder_sir_wp006

Request ID: cder_sir_wp006

Request Description: In this query, we conducted signal identification for dupilumab by monitoring for the occurrence of incident non-pregnancy and non-cancer outcomes and associated temporal clusters among new episodes of dupilumab use in the Sentinel Distributed Database (2017-2023).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 12.2.1, with Self Controlled Risk Interval Design (SCRI) and Signal Identification (SI) modules.

Data Source: We distributed this request to 14 Sentinel Data Partners on December 22, 2023 including 100% fee for service Medicare and All State Medicaid. This report includes data aggregated from 13 Data Partners to prevent potential overlap in Medicaid patient populations between two Data Partners for one year in the query period. The cohort selection period was from March 1, 2017 through up to June 30, 2023. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: We conducted this signal identification using a self-controlled risk interval design to identify incident outcomes and temporal clusters of incident outcomes following initiation of treatment with dupilumab in TreeScan and Tree Temporal Scan analyses. We identified all valid episodes of new use of dupilumab among those aged 12 years or older at the time of treatment initiation and screened for the occurrence of incident health outcomes of interest (HOIs) during pertinent risk and control windows. The TreeScan analysis used a fixed risk window and pre-treatment control window of the same lengths. The risk window was from one to 28 days post-treatment initiation and the pre-treatment control window was -56 days to -29 days prior to treatment initiation. There were two Tree Temporal Scan analyses with varying continuous enrollment requirements (see Cohort Eligibility Criteria below) but both used a variable risk window from days one to 183 days post-treatment initiation to identify temporal clusters of incident outcomes. This is a Type 3 Signal Identification analysis in the Query Request Package (QRP) documentation.

Exposure of Interest: We defined the exposure of interest, dupilumab, using National Drug Codes (NDCs). The date of the qualifying dupilumab dispensing was defined as the index date. Incident dupilumab use was defined as no use of dupilumab in the 184 days prior to the index date. Individuals were allowed to contribute more than one incident dupilumab use episode to the analyses over the cohort selection period. Please see Appendix B for a list generic and brand names of medical products used to define exposure in this request.

Cohort Eligibility Criteria: In our TreeScan cohort, we required members to be continuously enrolled in health plans with medical and drug coverage at least 456 days before their index date to 29 days after index date to be included in the cohort. In our primary Tree Temporal Scan cohort, we required members to be continuously enrolled in health plans with medical and drug coverage at least 400 days before their index date to 183 days after (i.e., continuously enrolled for the entire duration of the variable risk window). In our sensitivity Tree Temporal Scan cohort, we required members to be continuously enrolled in health plans with medical and drug coverage at least 400 days before their index date to 56 days after (i.e., continuously enrolled for the minimum viable duration of the variable risk window as allowed by the TreeScan software). Gaps of up to 45 days were permitted in the evaluation of continuous enrollment requirements across cohorts. The following age groups were included in all cohorts: 12-17, 18-39, 40-64, 65-79, and 80+ years. Further, qualifying new use episodes of dupilumab that contributed to the TreeScan analysis with fixed pre and post treatment control and risk windows were required to have no evidence of an ongoing pregnancy in -183 to 28 days of the index date or a marker of end of pregnancy in -56 to 28 days of the index date. Qualifying new use episodes of dupilumab that contributed to the Tree Temporal Scan analyses with variable post treatment risk window were required to have no evidence of ongoing pregnancy or a marker of end of pregnancy in the 0 to 183 days since the index date. Please see Appendix C for a list of diagnosis and procedure codes used to define the pregnancy exclusion criteria.

Overview for Request: cder_sir_wp006

Baseline Characteristics: We evaluated the following demographic characteristics on the index date: age, year, sex, and census bureau region. We evaluated the following clinical characteristics in the 183 days prior to the index date: combined comorbidity score, any dupilumab indication, individual dupilumab indications (atopic dermatitis, asthma, chronic rhinosinusitis, eosinophilic esophagitis, prurigo nodularis), no evidence of dupilumab indication, and health service utilization intensity metrics. We evaluated the following concomitant treatments from index date to 28 days after the index date: use of topical glucocorticoids, topical calcineurin inhibitors, other topical prescription therapies, systemic therapies for atopic dermatitis, asthma biologics, oral azithromycin, exacerbation asthma inhalers (short-acting beta-agonists (SABA) or short-acting muscarinic-antagonist (SAMA)), oral glucocorticoids, zileuton, montelukast, maintenance asthma inhalers (inhaled corticosteroids (ICS), long-acting beta agonists (LABA) or long-acting muscarinic antagonists (LAMA)), proton pump inhibitors, IL-5 monoclonal antibodies (mAbs), purine analogues, IL-13 mAbs, systemic non-oral or injectable glucocorticoids, topical capsaicin, topical vitamin D analogues, systemic therapies for prurigo nodularis, and local nasal glucocorticoids. Please see Appendix D for a list of diagnosis codes used to define dupilumab indications, and Appendix E for list of generic and brand names of medical products used to define concomitant medications in this request and Appendix F for a list of healthcare common procedure coding system, level II (HCPCS) codes used to define concomitant medications in this request.

Outcome Assessment via Signal Identification: We evaluated new HOIs using a hierarchical tree based on International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. We trimmed our tree to exclude outcomes that are unlikely to be drug-related (such as those with long induction and latency windows like neoplasms; or those caused by external factors). Chapters beginning with C (neoplasms), D* (neoplasms), O (pregnancy), P (perinatal), Q (congenital malformations), V-Y* were excluded. The asterisk * indicates some exceptions, for example, neoplasms of uncertain behavior of lymphoid, hematopoietic, and related tissue (D47), falls (W00-W19), intentional self-harm (X71-X83) are retained on the tree as they may be related to drug exposures.

In our primary TreeScan and Tree Temporal Scan analyses, we identified incident HOIs occurring in the inpatient or emergency department settings. In our sensitivity TreeScan and Tree Temporal Scan analyses, we identified HOIs occurring in any setting (inpatient, emergency department, or ambulatory). An outcome was considered to be incident if there was no evidence of outcomes with the same first 3 digits of the ICD-10-CM code in the prior 400 days in any setting. We identified signals in the overall cohorts as well as in sub-populations defined by age group (12-17, 18-39, 40-64, 65-79, 80+), year of treatment initiation (2017-2023) and indication (any, none).

Tree-Based Scan Statistics: Potential signals were identified via the TreeScan™ software (version 2.1.1). TreeScan™ is a data-mining software that implements tree-based scan statistics. The software determined whether there were statistically significant elevations in the frequencies of incident outcomes post-treatment initiation and temporal clustering of outcomes in the post-treatment period after adjusting for multiple testing. For our TreeScan analyses that compared the incidence of outcomes in post-treatment risk windows with those in pre-treatment control windows, we used a conditional Bernoulli model. For our Tree Temporal Scan analyses that identified temporal clusters of incident HOIs in the variable 183 day post-treatment risk window, we used a Tree Temporal Scan Statistic conditioned on node and time. See Appendices G.1 and G.2 for calculation of test statistics.

Please see Appendices H, I, J, and K for the specifications of parameters used in this request and design diagrams.

Limitations: Statistical signals identified in these analyses do not imply causal relationships between treatments and outcomes, and require further evaluation. Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*all terms may not be used in this report

**Glossary of Terms for Analyses Using
Self-Controlled Risk Interval (SCRI) Tool***

Analytic Cohort - to be included in the analytic cohort, patients in the exposure cohort must have an incident health outcome of interest (HOI) in the risk or control window and meet all post-exposure enrollment requirements.

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). Along with the Principal Diagnosis Indicator, forms the Care Setting/PDX

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

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: (1) Cohort includes only the first valid incident treatment episode during the duration of the surveillance activity; (2) Cohort includes all valid incident treatment episodes during the duration of the surveillance activity.

Censored at Evidence of Death - indicates if risk and evaluation windows should be censored based on death date. If death and disenrollment occur on the same day, censoring will be attributed to death.

Control Window - the number of days before or after exposure where the patient is considered to not be at risk for the outcome of interest due to the exposure.

Data Partner Data Completeness Date - determined by the surveillance team and may be based on information on specific MSDD table "completeness" from the DMQA department.

Episodes - the number of index dates (e.g., date of exposure initiation).

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

Exposure Cohort - to be included in the exposure cohort, patients must have a valid exposure of interest. Valid means that all pre-exposure enrollment, incidence, and inclusion/exclusion criteria specified by the requester are met.

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

Post-Exposure Enrollment Requirement - indicates the number of days of continuous enrollment required from exposure date to whichever is greater: the end of the risk or control window. Longer post-exposure continuous enrollment requirements can also be

Pre-Exposure Enrollment Requirement - indicates the number of days of continuous enrollment in the requester-defined coverage type required before exposure date

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

Query Start Date - binds exposure date only; available data before the query start date may be used to determine if enrollment and incidence criteria are met and evaluate inclusion/exclusion criteria and presence/absence of covariates.

Query End Date - defines the last day that a patient can contribute follow-up time to the cohort and is used to calculate the latest possible date that a patient may contribute an exposure to the cohort.

Risk Window - The number of days after exposure where the patient is considered to be at risk for the outcome of interest due to

Same Day Exclusion - indicates if an exposure defined using NDCs should be excluded from consideration if more than one of the codes used to define the exposure is observed on the same day.

Surveillance Start Date - for time period 1 (i.e., the first look/evaluation for a Data Partner), this date is surveillance team defined and will often correspond to a medical product launch date.

**Glossary of Terms for Analyses Using
Self-Controlled Risk Interval (SCRI) Tool***

Time period - refers to a specific look at/evaluation of the data. Requesters evaluate mutually exclusive time periods, by Data Partner, over the course of the surveillance activity.

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 outcome of interest.

*all terms may not be used in this report

Table 1a. Aggregated Characteristics of Dupilumab Use, in the TreeScan Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to June 30, 2023

Patient Characteristics¹	Number	
Unique patients	85,373	
Episodes	89,516	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	48.7	16.5
Age	Number	Percent
12-17 years	8,325	9.3%
18-39 years	23,024	25.7%
40-64 years	35,582	39.7%
65-79 years	17,615	19.7%
≥ 80 years	4,970	5.6%
Sex		
Female	47,816	56.0%
Male	37,557	44.0%
Race ²		
American Indian or Alaska Native	282	0.3%
Asian	2,647	3.1%
Black or African American	7,907	9.3%
Multi-racial	1,039	1.2%
Native Hawaiian or Other Pacific Islander	175	0.2%
Unknown	45,973	53.8%
White	27,350	32.0%
Hispanic origin		
Yes	2,781	3.3%
No	32,946	38.6%
Unknown	49,646	58.2%
Year		
2017	4,137	4.6%
2018	7,073	7.9%
2019	16,265	18.2%
2020	19,233	21.5%
2021	16,258	18.2%
2022	19,371	21.6%
2023	7,179	8.0%
Census Bureau Region		
Midwest	16,156	18.0%
Northeast	18,271	20.4%
South	35,237	39.4%
West	19,443	21.7%
Other	64	0.1%
Invalid	315	0.4%
Missing	30	0.0%

Table 1a. Aggregated Characteristics of Dupilumab Use, in the TreeScan Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to June 30, 2023

Health Characteristics	Mean	Standard Deviation
Combined comorbidity score ³	1.1	1.8
	Number	Percent
Any Dupilumab Indication	79,884	89.2%
Atopic Dermatitis	54,863	61.3%
Asthma	29,745	33.2%
Chronic Rhinosinusitis	17,337	19.4%
Eosinophilic Esophagitis	5,069	5.7%
Prurigo Nodularis	3,294	3.7%
No Dupilumab Indication	9,632	10.8%
Medical Product Use	Number	Percent
Topical Glucocorticoids	29,291	32.7%
Topical Calcineurin Inhibitors	7,826	8.7%
Other Topical Prescription Therapies	362	0.4%
Systemic Therapies for Atopic Dermatitis	3,558	4.0%
Asthma Biologics	1,640	1.8%
Oral Azithromycin	2,565	2.9%
Exacerbation Asthma Inhalers (SABA or SAMA)	14,345	16.0%
Oral Glucocorticoids	15,340	17.1%
Zileuton	151	0.2%
Montelukast	17,715	19.8%
Maintenance Asthma Inhalers (ICS, LABA or LAMA)	20,949	23.4%
Proton Pump Inhibitors	15,716	17.6%
IL-5 mAbs	683	0.8%
Purine Analogues	263	0.3%
IL-13 mAbs	14	0.0%
Systemic Non-Oral or Injectable Glucocorticoids	3,826	4.3%
Topical Capsaicin	0	0.0%
Topical Vitamin D Analogues	255	0.3%
Systemic Therapies for Prurigo Nodularis	28,326	31.6%
Local Nasal Glucocorticoids	8,123	9.1%

Table 1a. Aggregated Characteristics of Dupilumab Use, in the TreeScan Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to June 30, 2023

Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	13.0	12.5
Mean number of emergency room encounters	0.4	1.1
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.8	10.5
Mean number of generics dispensed	9.4	6.1
Mean number of unique drug classes dispensed	8.4	5.4

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

³Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

Table 1b. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Primary Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Patient Characteristics¹	Number	
Unique patients	67,651	
Episodes	70,688	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	48.7	16.5
Age	Number	Percent
12-17 years	6,456	9.1%
18-39 years	18,071	25.6%
40-64 years	28,395	40.2%
65-79 years	14,067	19.9%
≥ 80 years	3,699	5.2%
Sex		
Female	37,796	55.9%
Male	29,855	44.1%
Race ³		
American Indian or Alaska Native	211	0.3%
Asian	2,141	3.2%
Black or African American	6,133	9.1%
Multi-racial	834	1.2%
Native Hawaiian or Other Pacific Islander	138	0.2%
Unknown	36,584	54.1%
White	21,610	31.9%
Hispanic origin		
Yes	2,165	3.2%
No	25,790	38.1%
Unknown	39,696	58.7%
Year		
2017	3,814	5.4%
2018	6,674	9.4%
2019	15,408	21.8%
2020	15,514	21.9%
2021	15,412	21.8%
2022	13,866	19.6%
2023	0	0.0%
Census Bureau Region		
Midwest	12,499	17.7%
Northeast	14,231	20.1%
South	28,005	39.6%
West	15,623	22.1%
Other	49	0.1%
Invalid	259	0.4%
Missing	22	0.0%

Table 1b. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Primary Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Health Characteristics	Mean	Standard Deviation
Combined comorbidity score ²	1.1	1.7
	Number	Percent
Any Dupilumab Indication	63,111	89.3%
Atopic Dermatitis	44,218	62.6%
Asthma	23,916	33.8%
Chronic Rhinosinusitis	13,746	19.4%
Eosinophilic Esophagitis	3,546	5.0%
Prurigo Nodularis	2,110	3.0%
No Dupilumab Indication	7,577	10.7%
Medical Product Use	Number	Percent
Topical Glucocorticoids	23,565	33.3%
Topical Calcineurin Inhibitors	6,240	8.8%
Other Topical Prescription Therapies	192	0.3%
Systemic Therapies for Atopic Dermatitis	3,000	4.2%
Asthma Biologics	1,332	1.9%
Oral Azithromycin	2,048	2.9%
Exacerbation Asthma Inhalers (SABA or SAMA)	11,340	16.0%
Oral Glucocorticoids	12,419	17.6%
Zileuton	133	0.2%
Montelukast	14,170	20.0%
Maintenance Asthma Inhalers (ICS, LABA or LAMA)	16,674	23.6%
Proton Pump Inhibitors	11,975	16.9%
IL-5 mAbs	525	0.7%
Purine Analogues	227	0.3%
IL-13 mAbs	*****	*****
Systemic Non-Oral or Injectable Glucocorticoids	3,024	4.3%
Topical Capsaicin	0	0.0%
Topical Vitamin D Analogues	214	0.3%
Systemic Therapies for Prurigo Nodularis	22,476	31.8%
Local Nasal Glucocorticoids	6,330	9.0%

Table 1b. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Primary Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	13.0	12.3
Mean number of emergency room encounters	0.4	1.0
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.6	10.0
Mean number of generics dispensed	9.3	6.0
Mean number of unique drug classes dispensed	8.4	5.3

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

³Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

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

Table 1c. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Sensitivity Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Patient Characteristics¹	Number	
Unique patients	72,828	
Episodes	76,083	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	48.5	16.5
Age	Number	Percent
12-17 years	6,818	9.0%
18-39 years	19,982	26.3%
40-64 years	30,645	40.3%
65-79 years	14,714	19.3%
≥ 80 years	3,924	5.2%
Sex		
Female	40,748	56.0%
Male	32,080	44.0%
Race ²		
American Indian or Alaska Native	224	0.3%
Asian	2,267	3.1%
Black or African American	6,565	9.0%
Multi-racial	904	1.2%
Native Hawaiian or Other Pacific Islander	147	0.2%
Unknown	39,982	54.9%
White	22,739	31.2%
Hispanic origin		
Yes	2,277	3.1%
No	27,090	37.2%
Unknown	43,461	59.7%
Year		
2017	4,167	5.5%
2018	7,212	9.5%
2019	16,527	21.7%
2020	16,570	21.8%
2021	16,643	21.9%
2022	14,964	19.7%
2023	0	0.0%
Census Bureau Region		
Midwest	13,566	17.8%
Northeast	15,234	20.0%
South	30,283	39.8%
West	16,638	21.9%
Other	61	0.1%
Invalid	273	0.4%
Missing	28	0.0%

Table 1c. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Sensitivity Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Health Characteristics	Mean	Standard Deviation
Combined comorbidity score ³	1.1	1.8
	Number	Percent
Any Dupilumab Indication	67,877	89.2%
Atopic Dermatitis	47,628	62.6%
Asthma	25,575	33.6%
Chronic Rhinosinusitis	14,741	19.4%
Eosinophilic Esophagitis	3,793	5.0%
Prurigo Nodularis	2,269	3.0%
No Dupilumab Indication	8,206	10.8%
Medical Product Use	Number	Percent
Topical Glucocorticoids	25,303	33.3%
Topical Calcineurin Inhibitors	6,689	8.8%
Other Topical Prescription Therapies	204	0.3%
Systemic Therapies for Atopic Dermatitis	3,201	4.2%
Asthma Biologics	1,423	1.9%
Oral Azithromycin	2,183	2.9%
Exacerbation Asthma Inhalers (SABA or SAMA)	12,106	15.9%
Oral Glucocorticoids	13,372	17.6%
Zileuton	141	0.2%
Montelukast	15,195	20.0%
Maintenance Asthma Inhalers (ICS, LABA or LAMA)	17,824	23.4%
Proton Pump Inhibitors	12,753	16.8%
IL-5 mAbs	559	0.7%
Purine Analogues	242	0.3%
IL-13 mAbs	*****	*****
Systemic Non-Oral or Injectable Glucocorticoids	3,255	4.3%
Topical Capsaicin	0	0.0%
Topical Vitamin D Analogues	230	0.3%
Systemic Therapies for Prurigo Nodularis	24,067	31.6%
Local Nasal Glucocorticoids	6,736	8.9%

Table 1c. Aggregated Characteristics of Dupilumab Use, in the Tree Temporal Scan Sensitivity Cohort, in the Sentinel Distributed Database (SDD) from March 1, 2017 to up to December 31, 2022

Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.9	12.3
Mean number of emergency room encounters	0.4	1.1
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.6	10.0
Mean number of generics dispensed	9.3	6.0
Mean number of unique drug classes dispensed	8.4	5.3

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

³Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

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

Table 2a. Signal Identification Outcome Assessment¹ in the Inpatient and Emergency Department Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic²	P-Value
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	40	22.92	1.75	14.867346	0.0001
Acute embolism and thrombosis of deep veins of lower extremity	I824grp	4	29	17.32	1.68	8.935736	0.0187

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

Table 2b. Signal Identification Outcome Assessment¹ in the Inpatient and Emergency Department Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
12-17 years							
N/A ³							
18-39 years							
N/A ³							
40-64 years							
Acute embolism and thrombosis of deep veins of lower extremity	I824grp	4	11	5.44	2.02	7.748759	0.0369
Other viral pneumonia	J128grp	4	25	14.84	1.69	7.512966	0.0403
Other viral pneumonia	J1289grp	5	15	7.91	1.9	7.509901	0.0441
65-79 years							
N/A ³							
80+ years							
N/A ³							

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 2c. Signal Identification Outcome Assessment¹ in the Inpatient and Emergency Department Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
2017							
	N/A ³						
2018							
	N/A ³						
2019							
	N/A ³						
2020							
Emergency use of U07	U07grp	3	32	18.89	1.7	9.978252	0.0019
COVID-19	U071grp	4	32	18.89	1.7	9.978252	0.0019
2021							
	N/A ³						
2022							
	N/A ³						
2023							
	N/A ³						

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 2d. Signal Identification Outcome Assessment¹ in the Inpatient and Emergency Department Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
Any Indication							
Yes							
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	36	20.6	1.75	13.080161	0.0004
Acute embolism and thrombosis of deep veins of lower extremity	I824grp	4	28	16.08	1.74	10.015207	0.0037
Acute embolism and thrombosis of unspecified deep veins of lower extremity	I8240grp	5	12	6.03	1.99	8.260432	0.0368
COVID-19	U071grp	4	97	72.86	1.33	8.247098	0.037
Emergency use of U07	U07grp	3	97	72.86	1.33	8.247098	0.037
No							
Atopic dermatitis	L20grp	3	13	7.26	1.8	7.589325	0.0173
Atopic dermatitis, unspecified	L209grp	4	12	6.7	1.8	7.004149	0.0387

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

Table 3a. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators		Relative Risk	Test Statistic ²	P-Value
				Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators			
Other joint disorder, not elsewhere classified	M25grp	3	1023	835.1	1.23	37.530903	0.0001	
Pain in joint	M255grp	4	878	716.86	1.23	32.104176	0.0001	
Atherosclerosis	I70grp	3	206	150.53	1.37	17.985691	0.0002	
COVID-19	U071grp	4	393	313.71	1.25	17.661101	0.0002	
Emergency use of U07	U07grp	3	393	313.71	1.25	17.661101	0.0002	
Other and unspecified soft tissue disorders, not elsewhere classified	M79grp	3	952	826.38	1.15	16.983637	0.0002	
Dorsalgia	M54grp	3	808	693.3	1.17	16.838115	0.0002	
Nausea and vomiting	R11grp	3	451	369.12	1.22	16.024516	0.0002	
Other disorders of kidney and ureter, not elsewhere classified	N28grp	3	218	168.42	1.3	12.836735	0.0012	
Abdominal and pelvic pain	R10grp	3	743	647.92	1.15	12.380134	0.0017	
Other symptoms and signs involving the digestive system and abdomen	R19grp	3	443	371.3	1.19	12.22277	0.0017	
Pain, unspecified	R52grp	3	165	123.91	1.33	11.975562	0.0024	
Hypotension	I95grp	3	174	132.64	1.31	11.336869	0.0047	
Pain in limb, hand, foot, fingers and toes	M796grp	4	625	542.34	1.15	11.162629	0.0051	
Fracture of femur	S72grp	3	32	17.45	1.83	11.113115	0.0052	
Cramp and spasm	R252grp	4	92	63.7	1.44	11.072752	0.0052	
Pain in shoulder	M2551grp	5	212	166.67	1.27	10.84085	0.0063	
Hypotension, unspecified	I959grp	4	107	76.35	1.4	10.819434	0.0065	
Anemia, unspecified	D649grp	4	342	283.6	1.21	10.600147	0.0095	
Osteoarthritis of knee	M17grp	3	263	212.48	1.24	10.570933	0.0097	
Pain, not elsewhere classified	G89grp	3	435	368.68	1.18	10.534218	0.01	
Other anemias	D64grp	3	350	291.46	1.2	10.368551	0.0107	
Pain in ankle and joints of foot	M2557grp	5	126	92.93	1.36	10.340254	0.011	
Diverticular disease of intestine	K57grp	3	337	280.11	1.2	10.184739	0.0124	
Headache, unspecified	R519grp	4	262	212.48	1.23	10.157246	0.0125	

Table 3a. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
Other specified disorders of kidney and ureter	N288grp	4	44	26.62	1.65	10.147992	0.0126
Other viral pneumonia	J128grp	4	52	32.72	1.59	10.087273	0.0132
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	67	44.5	1.51	10.043785	0.0141
Poisoning by, adverse effect of and underdosing of diuretics and other and unspecified drugs, medicaments and biological substances	T50grp	3	176	136.57	1.29	10.008923	0.0157
Other viral pneumonia	J1289grp	5	28	15.27	1.83	9.723706	0.0235
Thoracic, thoracolumbar, and lumbosacral intervertebral disc disorders	M51grp	3	326	271.39	1.2	9.687968	0.0236
Dislocation and sprain of joints and ligaments of knee	S83grp	3	112	82.03	1.37	9.626839	0.0238
Other disorders of lacrimal gland	H041grp	4	332	277.06	1.2	9.605325	0.0238
Poisoning by, adverse effect of and underdosing of other and unspecified drugs, medicaments and biological	T509grp	4	154	118.24	1.3	9.503741	0.0265
Hematuria	R31grp	3	173	134.82	1.28	9.503424	0.0265
Dry eye syndrome	H0412grp	5	331	276.62	1.2	9.424417	0.0284
Unspecified lump in the right breast, upper outer quadrant	N6311grp	5	20	10.04	1.99	9.402979	0.0291
Other diseases of liver	K76grp	3	262	214.67	1.22	9.189802	0.0352
Disorders of lacrimal system	H04grp	3	358	301.93	1.19	9.186473	0.0352
Abnormalities of gait and mobility	R26grp	3	275	226.45	1.22	9.168914	0.0353
Acute kidney failure	N17grp	3	188	148.78	1.26	9.088764	0.0465
Nausea	R110grp	4	224	181.07	1.24	8.955502	0.0492

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

Table 3b. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
12-17 years							
Other joint disorder, not elsewhere classified	M25grp	3	76	52.87	1.45	8.063849	0.0185
18-39 years							
Other joint disorder, not elsewhere classified	M25grp	3	178	135.69	1.32	10.915665	0.0016
Dorsalgia	M54grp	3	182	141.73	1.29	9.482358	0.0076
Pain in joint	M255grp	4	155	118.78	1.31	9.128479	0.0098
Other and unspecified soft tissue disorders, not elsewhere classified	M79grp	3	181	141.73	1.28	9.020031	0.0188
Disorders of refraction and accommodation	H52grp	3	121	89.79	1.35	8.932077	0.0196
40-64 years							
Other joint disorder, not elsewhere classified	M25grp	3	442	358.59	1.24	17.03075	0.0001
Pain in joint	M255grp	4	379	307.8	1.23	14.436179	0.0001
Emergency use of U07	U07grp	3	183	136.03	1.35	14.116891	0.0001
COVID-19	U071grp	4	183	136.03	1.35	14.116891	0.0001
Other viral pneumonia	J1289grp	5	18	8.18	2.2	11.819303	0.001
Pain, unspecified	R52grp	3	80	53.81	1.49	11.103633	0.0017
Nausea and vomiting	R11grp	3	180	138.62	1.3	10.757079	0.0044
Other viral pneumonia	J128grp	4	30	16.36	1.83	10.237627	0.0065
Other specified disorders of bone density and structure, unspecified site	M8580grp	5	45	27.55	1.63	9.708814	0.0139
Dorsalgia	M54grp	3	337	281.54	1.2	9.576472	0.0156
Headache, unspecified	R519grp	4	116	86.1	1.35	9.026714	0.0305
Other anemias	D64grp	3	139	105.9	1.31	8.997646	0.0307
Anemia, unspecified	D649grp	4	137	104.18	1.32	8.992779	0.0307
Nausea	R110grp	4	98	71.03	1.38	8.898844	0.0338
Viral pneumonia, not elsewhere classified	J12grp	3	33	19.37	1.7	8.478664	0.0448

Table 3b. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
65-79 years							
Localized swelling, mass and lump, left lower limb	R2242grp	5	22	11.57	1.9	9.645419	0.0119
Atherosclerosis	I70grp	3	99	73.12	1.36	8.566518	0.0349
80+ years							
Other and unspecified osteoarthritis	M19grp	3	57	39.05	1.46	8.065814	0.0446

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

Table 3c. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Node Outcomes Dupilumab Initiators	Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
2017							
N/A ³							
2018							
Hepatomegaly and splenomegaly, not elsewhere classified	R16grp	3	15	6.87	2.19	9.505758	0.0049
2019							
N/A ³							
2020							
Emergency use of U07	U07grp	3	88	51.42	1.72	23.201495	0.0001
COVID-19	U071grp	4	88	51.42	1.72	23.201495	0.0001
Other joint disorder, not elsewhere classified	M25grp	3	211	156	1.36	17.052635	0.0001
Pain in joint	M255grp	4	183	134.39	1.37	15.437844	0.0001
Unspecified lump in the right breast	N631grp	4	13	5.62	2.32	10.910754	0.0022
2021							
Abdominal and pelvic pain	R10grp	3	154	114.64	1.35	11.857927	0.0012
Cough, unspecified	R059grp	4	43	26.39	1.63	9.243185	0.0154
2022							
N/A ³							
2023							
Hyperglycemia, unspecified	R739grp	4	16	7.67	2.09	8.48983	0.0269

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 3d. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Outcomes		Expected Node Outcomes among Dupilumab Initiators	Relative Risk	Test Statistic ²	P-Value
		Node Level	Dupilumab Initiators				
Any Indication							
Yes							
Other joint disorder, not elsewhere classified	M25grp	3	925	745.95	1.24	37.564166	0.0001
Pain in joint	M255grp	4	790	637.91	1.24	31.64044	0.0001
COVID-19	U071grp	4	363	282.52	1.29	19.883795	0.0001
Emergency use of U07	U07grp	3	363	282.52	1.29	19.883795	0.0001
Other and unspecified soft tissue disorders, not elsewhere classified	M79grp	3	869	739.52	1.18	19.852626	0.0001
Dorsalgia	M54grp	3	727	619.05	1.18	16.454034	0.0001
Atherosclerosis	I70grp	3	174	127.75	1.36	14.481456	0.0002
Abdominal and pelvic pain	R10grp	3	683	584.75	1.17	14.424364	0.0002
Nausea and vomiting	R11grp	3	402	329.67	1.22	13.788126	0.0004
Pain in limb, hand, foot, fingers and toes	M796grp	4	571	484.44	1.18	13.490502	0.0005
Diverticular disease of intestine	K57grp	3	314	254.22	1.24	12.195504	0.0017
Other symptoms and signs involving the digestive system and abdomen	R19grp	3	404	335.68	1.2	12.091298	0.0018
Pain, unspecified	R52grp	3	141	103.32	1.37	11.884585	0.002
Hypotension	I95grp	3	156	116.61	1.34	11.508425	0.0035
Other disorders of kidney and ureter, not elsewhere classified	N28grp	3	194	149.62	1.3	11.392925	0.0035
Other diseases of liver	K76grp	3	243	192.92	1.26	11.264495	0.0039
Fracture of femur	S72grp	3	26	13.29	1.96	11.127082	0.0046
Dislocation and sprain of joints and ligaments of knee	S83grp	3	106	75.02	1.41	11.062981	0.0052
Thoracic, thoracolumbar, and lumbosacral intervertebral disc disorders	M51grp	3	292	237.93	1.23	10.659839	0.0083
Pain in shoulder	M2551grp	5	192	149.19	1.29	10.631929	0.0085
Other specified disorders of bone density and structure, unspecified site	M8580grp	5	92	64.31	1.43	10.318925	0.0106
Hypotension, unspecified	I959grp	4	95	66.88	1.42	10.228866	0.0114
Hematuria	R31grp	3	152	115.32	1.32	10.088634	0.0159
Pain in limb, unspecified	M7960grp	5	164	126.04	1.3	9.890055	0.017

Table 3d. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Outcomes		Expected Node	Relative Risk	Test Statistic ²	P-Value
		Node Level	Dupilumab Initiators	Outcomes among Dupilumab Initiators			
Cramp and spasm	R252grp	4	82	56.59	1.45	9.876014	0.017
Anemia, unspecified	D649grp	4	297	244.36	1.22	9.841482	0.0179
Other viral pneumonia	J128grp	4	50	31.3	1.6	9.744372	0.0188
Poisoning by, adverse effect of and underdosing of diuretics and other and unspecified drugs, medicaments and biological substances	T50grp	3	156	119.61	1.3	9.576702	0.0206
Other viral pneumonia	J1289grp	5	27	14.58	1.85	9.502286	0.0246
Headache, unspecified	R519grp	4	234	188.63	1.24	9.45735	0.0252
Other anemias	D64grp	3	304	251.65	1.21	9.455295	0.0252
Other disorders of conjunctiva	H11grp	3	103	74.59	1.38	9.351123	0.027
Fracture of head and neck of femur	S720grp	4	11	4.72	2.33	9.31736	0.0365
Other disorders of lacrimal gland	H041grp	4	293	242.22	1.21	9.241861	0.0378
Degeneration of macula and posterior pole	H353grp	4	142	108.03	1.32	9.234655	0.0378
Disorders of lacrimal system	H04grp	3	318	264.94	1.2	9.23042	0.038
Psoriasis vulgaris	L400grp	4	138	104.6	1.32	9.219164	0.0382
Dry eye syndrome	H0412grp	5	292	241.79	1.21	9.051599	0.042
Glaucoma suspect	H400grp	4	175	137.19	1.28	9.020604	0.0431
Occlusion and stenosis of carotid artery	I652grp	4	114	84.45	1.35	8.934551	0.0462
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	59	39.01	1.51	8.882605	0.0477
Pain, not elsewhere classified	G89grp	3	388	330.1	1.18	8.836996	0.0485
Other specified disorders of kidney and ureter	N288grp	4	39	23.58	1.65	8.830141	0.0488
No							
Atopic dermatitis	L20grp	3	916	462.69	2.09	650.56683	0.0001
Other atopic dermatitis	L208grp	4	551	278.32	2.05	385.14845	0.0001
Other atopic dermatitis	L2089grp	5	398	201.04	2.03	276.38645	0.0001
Atopic dermatitis, unspecified	L209grp	4	363	183.36	2.02	251.7066	0.0001
Intrinsic (allergic) eczema	L2084grp	5	117	59.1	1.99	80.294008	0.0001
Asthma	J45grp	3	90	49	1.85	41.441752	0.0001
Chronic sinusitis	J32grp	3	28	14.14	1.98	19.144795	0.0001

Table 3d. Signal Identification Outcome Assessment¹ in the Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Conditional Bernoulli Tree-Based Scan Statistic² among Dupilumab Initiators in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Outcomes		Expected Node	Relative Risk	Test Statistic ²	P-Value
		Node Level	Dupilumab Initiators	Outcomes among Dupilumab Initiators			
Atopic neurodermatitis	L2081grp	5	28	14.14	1.98	19.144795	0.0001
Unspecified asthma	J4590grp	5	26	13.13	1.98	17.775839	0.0001
Severe persistent asthma	J455grp	4	23	11.62	1.98	15.722829	0.0001
Severe persistent asthma, uncomplicated	J4550grp	5	22	11.11	1.98	15.038606	0.0001
Other and unspecified noninfective gastroenteritis and colitis	K52grp	3	20	10.61	1.89	10.352328	0.0023
Gastritis and duodenitis	K29grp	3	20	10.61	1.89	10.352328	0.0023
Mild intermittent asthma	J452grp	4	15	7.58	1.98	10.250627	0.0035
Noninfective gastroenteritis and colitis, unspecified	K529grp	4	15	7.58	1.98	10.250627	0.0035
Mild intermittent asthma, uncomplicated	J4520grp	5	14	7.07	1.98	9.566857	0.0081
Moderate persistent asthma	J454grp	4	14	7.07	1.98	9.566857	0.0081
Other and unspecified asthma	J459grp	4	33	20.2	1.64	8.93138	0.0124
Chronic rhinitis	J310grp	4	13	6.57	1.98	8.883143	0.0189
Prurigo nodularis	L281grp	4	13	6.57	1.98	8.883143	0.0189
Chronic rhinitis, nasopharyngitis and pharyngitis	J31grp	3	13	6.57	1.98	8.883143	0.0189
Chronic sinusitis, unspecified	J329grp	4	13	6.57	1.98	8.883143	0.0189
Moderate persistent asthma, uncomplicated	J4540grp	5	12	6.06	1.98	8.199485	0.0404

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Conditional Bernoulli log likelihood ratio (LLR) based test statistic. See Appendix G.1 for additional details.

Table 4a. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	4 to 25	26	8.01	4.58	12.616159	0.0142

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

Table 4b. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
12-17 years								
	N/A ³							
18-39 years								
	N/A ³							
40-64 years								
	N/A ³							
65-79 years								
	N/A ³							
80+ years								
	N/A ³							

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 4c. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2017								
N/A ³								
2018								
Pain in joint	M255grp	4	19 to 28	11	1.93	7.61	10.104335	0.0372
2019								
N/A ³								
2020								
Influenza due to other identified influenza virus	J10grp	3	8 to 38	13	2.07	infinity	12.937401	0.003
Influenza due to other identified influenza virus with other respiratory manifestations	J101grp	4	8 to 38	12	1.91	infinity	11.941902	0.0086
2021								
N/A ³								
2022								
N/A ³								
2023								
N/A ⁴								

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

⁴No patients indexed in 2023 to ensure complete follow-up time.

Table 4d. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic^c Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Any Indication								
Yes								
	N/A ³							
No								
	N/A ³							

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 5a. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Atopic dermatitis	L20grp	3	1 to 18	947	291.55	4.42	460.780059	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	550	165.48	4.54	276.262965	0.0001
Other atopic dermatitis	L2089grp	5	1 to 16	356	93.62	5.33	213.214445	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	420	138.67	4.09	184.19601	0.0001
Intrinsic (allergic) eczema	L2084grp	5	2 to 23	153	59.53	3.3	50.964285	0.0001
Pruritus	L29grp	3	1 to 23	461	278.37	1.84	49.964403	0.0001
Other and unspecified dermatitis	L30grp	3	1 to 24	613	417.85	1.59	39.830325	0.0001
Nasal polyp	J33grp	3	1 to 18	112	44.63	3.02	35.686868	0.0001
Psoriasis vulgaris	L400grp	4	3 to 21	109	45.57	2.87	31.632597	0.0001
Other pruritus	L298grp	4	1 to 12	143	69.37	2.24	29.819014	0.0001
Urticaria	L50grp	3	1 to 23	205	114.82	2.02	28.65816	0.0001
Dermatitis, unspecified	L309grp	4	2 to 37	644	470.74	1.51	28.603581	0.0001
Vasomotor and allergic rhinitis	J30grp	3	1 to 20	461	330.72	1.47	22.850974	0.0001
Atopic neurodermatitis	L2081grp	5	2 to 21	39	10.5	5.64	22.676885	0.0001
Pruritus, unspecified	L299grp	4	2 to 23	209	126.78	1.82	22.263651	0.0001
Severe persistent asthma, uncomplicated	J4550grp	5	2 to 11	22	3.74	8.23	20.732511	0.0001
Psoriasis	L40grp	3	2 to 14	147	83.01	1.89	20.023688	0.0001
Severe persistent asthma	J455grp	4	2 to 11	23	4.34	7.07	19.68345	0.0001
Nasal polyp, unspecified	J339grp	4	1 to 18	60	23.97	3.01	19.024726	0.0001
Polyp of nasal cavity	J330grp	4	1 to 18	42	14.14	3.81	17.86267	0.0002
Conjunctivitis	H10grp	3	35 to 69	647	508.3	1.36	17.43052	0.0003
Other allergic rhinitis	J308grp	4	1 to 35	212	137.83	1.77	17.118416	0.0003
Dermatitis due to substances taken internally	L27grp	3	4 to 39	125	72.52	2.1	15.583216	0.0021
Rash and other nonspecific skin eruption	R21grp	3	7 to 26	292	209.86	1.47	14.318723	0.0061

Table 5a. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Allergic urticaria	L500grp	4	9 to 23	43	16.88	2.96	14.084242	0.0084
Adverse effects, not elsewhere classified	T78grp	3	1 to 22	198	132.52	1.61	14.029591	0.0093
Other specified dermatitis	L308grp	4	1 to 16	80	41.49	2.13	14.019855	0.0093
Cellulitis and acute lymphangitis	L03grp	3	5 to 59	652	527.18	1.38	13.751432	0.0138
Generalized skin eruption due to drugs and medicaments taken internally	L270grp	4	5 to 72	136	83.93	2.57	13.577808	0.0167
Other allergic rhinitis	J3089grp	5	1 to 35	154	99.14	1.79	12.96718	0.0305

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

Table 5b. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
12-17 years								
Atopic dermatitis	L20grp	3	1 to 18	74	22.36	4.93	37.010888	0.0001
Other atopic dermatitis	L208grp	4	5 to 18	37	9.29	5.79	23.454821	0.0001
Other atopic dermatitis	L2089grp	5	5 to 11	19	3.19	8.03	18.088116	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 18	32	9.54	4.75	16.286845	0.0001
Pruritus	L29grp	3	7 to 8	14	2.84	5.54	11.17814	0.0212
Other and unspecified dermatitis	L30grp	3	9 to 10	14	2.95	5.35	10.742479	0.0346
Other pruritus	L298grp	4	6 to 8	12	2.17	6.45	10.706855	0.0361
18-39 years								
Atopic dermatitis	L20grp	3	2 to 21	198	70.81	3.79	76.537046	0.0001
Other atopic dermatitis	L208grp	4	1 to 21	117	42.17	3.78	44.6137	0.0001
Other atopic dermatitis	L2089grp	5	3 to 16	63	16.95	5.05	36.68833	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 23	92	33.72	3.74	34.096555	0.0001
Pruritus	L29grp	3	5 to 8	35	13.5	2.76	11.848368	0.031
Other and unspecified dermatitis	L30grp	3	1 to 14	117	72.3	1.74	11.634927	0.039
40-64 years								
Atopic dermatitis	L20grp	3	1 to 21	408	140.58	3.95	167.52828	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	217	69.68	4.1	99.26397	0.0001
Other atopic dermatitis	L2089grp	5	1 to 18	148	44.07	4.57	75.398057	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 21	163	54.85	3.97	69.420855	0.0001
Intrinsic (allergic) eczema	L2084grp	5	1 to 21	66	23.86	3.62	25.019006	0.0001
Pruritus	L29grp	3	3 to 24	174	99.06	1.97	23.097252	0.0001
Nasal polyp	J33grp	3	1 to 19	63	25.74	2.95	19.128129	0.0001
Other and unspecified dermatitis	L30grp	3	3 to 24	217	142.97	1.64	16.535667	0.0007
Other pruritus	L298grp	4	1 to 21	86	43.39	2.28	16.22913	0.0007
Nasal polyp, unspecified	J339grp	4	1 to 18	37	12.31	3.87	16.035265	0.0007
Urticaria	L50grp	3	1 to 19	73	34.81	2.41	15.872145	0.0007
Conjunctivitis	H10grp	3	35 to 77	338	248.11	1.54	14.63557	0.0031
Psoriasis vulgaris	L400grp	4	3 to 21	48	19.77	2.93	14.347442	0.0039
Dermatitis, unspecified	L309grp	4	3 to 24	164	106.92	1.66	13.086146	0.0161
Pruritus, unspecified	L299grp	4	8 to 24	73	37.86	2.14	12.78907	0.0229

Table 5b. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
65-79 years								
Atopic dermatitis	L20grp	3	1 to 13	202	49.37	5.46	132.069247	0.0001
Other atopic dermatitis	L208grp	4	3 to 13	109	22.54	6.49	85.368286	0.0001
Other atopic dermatitis	L2089grp	5	1 to 20	103	25.05	6.68	67.704453	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 13	83	22.61	4.64	47.567094	0.0001
Intrinsic (allergic) eczema	L2084grp	5	6 to 13	25	5.33	5.7	18.959914	0.0001
Nasal polyp	J33grp	3	5 to 35	44	16.18	4.24	16.200453	0.0007
Polyp of nasal cavity	J330grp	4	5 to 15	11	1.54	12.36	12.166504	0.0382
80+ years								
Atopic dermatitis	L20grp	3	1 to 9	63	10.25	8.44	61.668704	0.0001
Other atopic dermatitis	L208grp	4	1 to 9	40	6.2	8.93	40.800901	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 19	39	8.56	7.41	28.73202	0.0001
Other atopic dermatitis	L2089grp	5	1 to 9	27	4.1	9.11	27.989711	0.0001
Psoriasis vulgaris	L400grp	4	2 to 10	13	1.64	11.59	15.529812	0.0006
Atopic neurodermatitis	L2081grp	5	4 to 12	*****	0.31	infinity	15.100234	0.0007

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

*****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 5c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2017								
Atopic dermatitis	L20grp	3	1 to 21	106	29.88	5.65	58.260898	0.0001
Other atopic dermatitis	L208grp	4	1 to 21	60	18	4.99	30.288495	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	45	11.2	6.7	28.82778	0.0001
Other atopic dermatitis	L2089grp	5	2 to 14	30	6.74	6.34	21.538043	0.0001
Conjunctivitis	H10grp	3	44 to 64	65	31	2.48	14.155674	0.0011
Psoriasis	L40grp	3	2 to 16	26	8.22	4.06	12.173984	0.0105
Psoriasis vulgaris	L400grp	4	3 to 15	15	3.12	7.16	11.681304	0.019
2018								
Atopic dermatitis	L20grp	3	1 to 16	104	31.06	4.48	52.816955	0.0001
Other atopic dermatitis	L208grp	4	1 to 16	63	16.52	5.38	37.870718	0.0001
Other atopic dermatitis	L2089grp	5	1 to 16	46	10.47	6.71	32.560598	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 20	48	16.75	3.71	19.302763	0.0001
Pruritus	L29grp	3	1 to 28	75	36.09	2.59	15.976203	0.0002
Vasomotor and allergic rhinitis	J30grp	3	2 to 21	69	35.71	2.21	12.174055	0.0169
2019								
Atopic dermatitis	L20grp	3	1 to 21	213	73	4.02	88.217802	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 27	124	42.95	4.47	50.464851	0.0001
Other atopic dermatitis	L208grp	4	2 to 21	106	37.56	3.72	41.567478	0.0001
Other atopic dermatitis	L2089grp	5	1 to 22	70	24.42	3.96	28.154366	0.0001

Table 5c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2020								
Atopic dermatitis	L20grp	3	1 to 18	205	60.01	4.81	106.99812	0.0001
Other atopic dermatitis	L208grp	4	1 to 13	98	25.85	4.96	58.498338	0.0001
Other atopic dermatitis	L2089grp	5	1 to 14	78	18.18	6.13	53.815131	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 18	88	22.88	5.55	53.451916	0.0001
Influenza due to other identified influenza virus	J10grp	3	3 to 42	40	8.91	144.32	28.96905	0.0001
Influenza due to other identified influenza virus with other respiratory manifestations	J101grp	4	3 to 42	37	8.26	133.47	26.73913	0.0001
Pruritus	L29grp	3	2 to 26	117	62.04	2.21	19.282487	0.0001
Influenza due to unidentified influenza virus	J11grp	3	2 to 29	22	5.28	10	14.691988	0.0018
Other allergic rhinitis	J308grp	4	7 to 12	22	5.32	4.7	14.55624	0.0018
Influenza due to unidentified influenza virus with other respiratory manifestations	J111grp	4	2 to 29	21	4.97	10.41	14.24977	0.0026
Other pruritus	L298grp	4	1 to 26	71	35.01	2.46	14.217229	0.0028
Other and unspecified dermatitis	L30grp	3	1 to 18	110	63.98	1.88	13.603688	0.0055
Psoriasis vulgaris	L400grp	4	3 to 21	27	8.67	4.18	12.349758	0.0239
2021								
Atopic dermatitis	L20grp	3	3 to 18	197	53.57	5.07	113.210774	0.0001
Other atopic dermatitis	L208grp	4	4 to 18	120	28.26	6.13	81.822582	0.0001
Other atopic dermatitis	L2089grp	5	4 to 18	83	18	6.97	61.883304	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 13	65	17.51	4.62	37.791092	0.0001
Nasal polyp	J33grp	3	5 to 17	29	8.18	4.48	15.88856	0.0006
Intrinsic (allergic) eczema	L2084grp	5	4 to 19	28	8.2	4.49	14.599652	0.002
Urticaria	L50grp	3	1 to 15	39	15.29	2.99	12.809921	0.0163
Allergic urticaria	L500grp	4	1 to 21	18	4.35	7.13	11.926378	0.0438

Table 5c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2022								
Atopic dermatitis	L20grp	3	1 to 20	151	54.88	3.53	56.767601	0.0001
Other atopic dermatitis	L208grp	4	1 to 19	99	31.09	4.27	46.786163	0.0001
Other atopic dermatitis	L2089grp	5	1 to 20	70	21.01	4.66	35.271281	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 21	52	23.52	2.63	12.782265	0.0155
2023								
N/A ³								

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³No patients indexed in 2023 to ensure complete follow-up time.

Table 5d. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Any Indication								
Yes								
Atopic dermatitis	L20grp	3	1 to 21	347	114.5	4.17	152.313635	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 21	174	53.16	4.7	85.498755	0.0001
Other atopic dermatitis	L208grp	4	2 to 21	167	57.83	3.79	67.946904	0.0001
Pruritus	L29grp	3	2 to 23	388	229.77	1.88	45.087971	0.0001
Other atopic dermatitis	L2089grp	5	1 to 21	93	31.55	3.98	39.098094	0.0001
Nasal polyp	J33grp	3	1 to 18	107	40.98	3.18	36.684026	0.0001
Other and unspecified dermatitis	L30grp	3	1 to 18	436	287.24	1.62	33.228562	0.0001
Psoriasis vulgaris	L400grp	4	3 to 21	97	40.45	2.88	28.294191	0.0001
Dermatitis, unspecified	L309grp	4	1 to 38	619	459.89	1.49	24.84343	0.0001
Vasomotor and allergic rhinitis	J30grp	3	1 to 20	422	294.55	1.52	24.305895	0.0001
Other pruritus	L298grp	4	1 to 23	202	119.07	1.89	23.851297	0.0001
Urticaria	L50grp	3	1 to 23	182	104.5	1.96	23.484462	0.0001
Pruritus, unspecified	L299grp	4	2 to 20	162	91.65	1.95	21.937753	0.0001
Intrinsic (allergic) eczema	L2084grp	5	2 to 21	58	21.49	3.43	21.072862	0.0001
Polyp of nasal cavity	J330grp	4	1 to 18	42	12.8	4.39	20.708726	0.0001
Other allergic rhinitis	J308grp	4	1 to 35	196	122.63	1.87	18.55125	0.0003
Psoriasis	L40grp	3	2 to 15	136	76.85	1.9	18.482473	0.0003
Conjunctivitis	H10grp	3	41 to 72	564	432.88	1.4	18.135091	0.0003
Severe persistent asthma, uncomplicated	J4550grp	5	2 to 6	12	1.07	15.45	18.070308	0.0003
Nasal polyp, unspecified	J339grp	4	1 to 33	83	40.24	2.7	17.336029	0.0003
Severe persistent asthma	J455grp	4	2 to 6	12	1.28	12.11	16.140234	0.0009
Other allergic rhinitis	J3089grp	5	1 to 35	142	87.56	1.91	14.218885	0.008
Dermatitis due to substances taken internally	L27grp	3	4 to 39	109	62.91	2.11	13.821417	0.0136
Cellulitis and acute lymphangitis of other parts of limb	L031grp	4	7 to 40	183	122.28	1.69	13.067115	0.0278
Cellulitis of other parts of limb	L0311grp	5	7 to 40	183	122.28	1.69	13.067115	0.0278
Other specified dermatitis	L308grp	4	1 to 16	71	36.38	2.16	12.857654	0.0355
Rash and other nonspecific skin eruption	R21grp	3	7 to 26	261	187.54	1.47	12.814926	0.0369
Adverse effects, not elsewhere classified	T78grp	3	1 to 22	180	120.57	1.61	12.705009	0.0432
Cellulitis and acute lymphangitis	L03grp	3	7 to 59	560	449.5	1.39	12.606558	0.0477

Table 5d. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Primary Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
No								
Atopic dermatitis	L20grp	3	1 to 18	638	210.81	4.56	281.65409	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	397	123.4	4.77	191.248838	0.0001
Other atopic dermatitis	L2089grp	5	1 to 14	259	66.73	5.73	159.447586	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	254	94.86	3.61	91.359064	0.0001
Intrinsic (allergic) eczema	L2084grp	5	1 to 23	95	39.59	3.11	27.788205	0.0001
Atopic neurodermatitis	L2081grp	5	1 to 19	24	6.37	5.87	14.21914	0.0025
Other and unspecified dermatitis	L30grp	3	3 to 24	62	30.81	2.38	12.180737	0.0166
Other pruritus	L298grp	4	9 to 13	15	3.05	5.6	11.938855	0.0233
Dermatitis, unspecified	L309grp	4	3 to 24	47	21.31	2.7	11.495442	0.0416

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

Table 6a. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Atopic dermatitis	L20grp	3	1 to 7	12	1.69	9.08	13.230884	0.0076
Atopic dermatitis, unspecified	L209grp	4	1 to 6	*****	1.12	11.69	12.997369	0.0107
Poisoning by, adverse effect of and underdosing of other drugs, medicaments and biological substances	T5099grp	5	4 to 25	28	8.96	4.33	12.87102	0.0123

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

*****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 6b. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
12-17 years								
	N/A ³							
18-39 years								
	N/A ³							
40-64 years								
	N/A ³							
65-79 years								
	N/A ³							
80+ years								
	N/A ³							

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 6c. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2017								
N/A ³								
2018								
Pain in joint	M255grp	4	19 to 28	12	2.11	7.6	10.975705	0.0179
2019								
N/A ³								
2020								
Influenza due to other identified influenza virus with other respiratory manifestations	J101grp	4	8 to 38	12	2	infinity	11.494091	0.0176
Influenza due to other identified influenza virus	J10grp	3	8 to 38	13	2.5	32.62	10.925356	0.0332
2021								
N/A ³								
2022								
N/A ³								
2023								
N/A ⁴								

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

⁴No patients indexed in 2023 to ensure complete follow-up time.

Table 6d. Signal Identification Outcome Assessment¹ in Inpatient and Emergency Department Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Any Indication								
Yes								
Pain in limb, hand, foot, fingers and toes	M796grp	4	11 to 13	22	6.25	3.73	11.949338	0.0356
No								
N/A ³								

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³In this analysis there were no outcome nodes that met the 0.05 p-value threshold.

Table 7a. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Atopic dermatitis	L20grp	3	1 to 18	1011	313.68	4.4	486.492997	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	588	178.78	4.5	291.051958	0.0001
Other atopic dermatitis	L2089grp	5	1 to 16	376	100.54	5.23	220.578182	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	447	148.46	4.08	194.279451	0.0001
Intrinsic (allergic) eczema	L2084grp	5	2 to 21	157	59.02	3.39	55.637469	0.0001
Pruritus	L29grp	3	1 to 23	495	300.05	1.84	52.902049	0.0001
Other and unspecified dermatitis	L30grp	3	1 to 21	595	396.82	1.62	42.889113	0.0001
Nasal polyp	J33grp	3	1 to 18	117	47.45	2.96	36.049089	0.0001
Other pruritus	L298grp	4	1 to 13	165	81.42	2.21	32.971988	0.0001
Urticaria	L50grp	3	1 to 23	220	123.76	2.02	30.331043	0.0001
Dermatitis, unspecified	L309grp	4	2 to 31	590	423.56	1.52	29.135671	0.0001
Psoriasis vulgaris	L400grp	4	3 to 21	111	49.22	2.67	28.498334	0.0001
Vasomotor and allergic rhinitis	J30grp	3	1 to 20	500	354.28	1.49	26.565349	0.0001
Atopic neurodermatitis	L2081grp	5	2 to 14	34	7.45	6.43	25.063322	0.0001
Pruritus, unspecified	L299grp	4	1 to 23	232	143.54	1.79	22.938656	0.0001
Severe persistent asthma, uncomplicated	J4550grp	5	2 to 11	23	4.03	7.91	21.068223	0.0001
Other allergic rhinitis	J308grp	4	1 to 35	232	147.99	1.83	20.301932	0.0001
Psoriasis	L40grp	3	2 to 14	156	89.57	1.86	20.132974	0.0001
Severe persistent asthma	J455grp	4	2 to 11	24	4.71	6.74	19.803068	0.0001
Nasal polyp, unspecified	J339grp	4	1 to 18	62	25.31	2.94	18.864917	0.0002
Polyp of nasal cavity	J330grp	4	1 to 15	41	13.12	3.93	18.839417	0.0002
Conjunctivitis	H10grp	3	35 to 72	754	603.23	1.34	17.471656	0.0004
Adverse effects, not elsewhere classified	T78grp	3	1 to 24	230	153.67	1.63	16.431628	0.0009
Rash and other nonspecific skin eruption	R21grp	3	7 to 26	317	226.05	1.48	16.253501	0.001
Dermatitis due to substances taken internally	L27grp	3	4 to 39	135	79.29	2.07	16.135496	0.001
Other allergic rhinitis	J3089grp	5	1 to 35	171	107.13	1.87	16.099887	0.0011
Other specified dermatitis	L308grp	4	1 to 16	86	44.17	2.16	15.471063	0.0021
Unspecified contact dermatitis	L25grp	3	1 to 23	158	99.8	1.74	14.395564	0.0072
Generalized skin eruption due to drugs and medicaments taken internally	L270grp	4	5 to 72	148	92.99	2.51	13.772945	0.0128

Table 7a. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Cellulitis and acute lymphangitis	L03grp	3	5 to 53	636	513.22	1.36	13.657339	0.0151
Allergic urticaria	L500grp	4	9 to 23	44	17.91	2.84	13.459108	0.0191
Idiopathic urticaria	L501grp	4	2 to 25	54	24.35	2.74	13.364447	0.0208
Eosinophilia	D721grp	4	3 to 35	118	70.66	1.98	13.171856	0.0267
Poisoning by, adverse effect of and underdosing of other and unspecified drugs, medicaments and biological substances	T509grp	4	16 to 34	103	60.03	1.87	12.64071	0.047

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

Table 7b. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
12-17 years								
Atopic dermatitis	L20grp	3	1 to 18	75	23.44	4.69	35.747154	0.0001
Other atopic dermatitis	L208grp	4	5 to 18	38	9.81	5.58	23.294024	0.0001
Other atopic dermatitis	L2089grp	5	5 to 12	21	3.87	7.42	18.413809	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 18	32	9.93	4.5	15.399008	0.0003
Pruritus	L29grp	3	6 to 8	18	4.46	4.54	11.575868	0.0134
Other pruritus	L298grp	4	6 to 8	13	2.36	6.43	11.557062	0.0136
18-39 years								
Atopic dermatitis	L20grp	3	2 to 21	217	78.79	3.74	81.779789	0.0001
Other atopic dermatitis	L208grp	4	2 to 21	125	44.94	3.77	47.871089	0.0001
Other atopic dermatitis	L2089grp	5	3 to 16	68	18.73	4.93	38.438225	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 23	99	37.12	3.66	35.26432	0.0001
Pruritus	L29grp	3	5 to 8	40	14.67	2.91	14.790232	0.0014
Other pruritus	L298grp	4	4 to 8	27	8.69	3.39	12.301088	0.0191
Other and unspecified dermatitis	L30grp	3	1 to 14	125	78.48	1.71	11.682269	0.0385
40-64 years								
Atopic dermatitis	L20grp	3	1 to 18	396	129.86	4.05	175.594877	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	234	76.1	4.07	105.018985	0.0001
Other atopic dermatitis	L2089grp	5	1 to 18	157	47.95	4.45	77.211228	0.0001
Atopic dermatitis, unspecified	L209grp	4	3 to 16	145	42.46	4.38	75.56799	0.0001
Intrinsic (allergic) eczema	L2084grp	5	1 to 21	72	26.21	3.62	26.97961	0.0001
Pruritus	L29grp	3	3 to 23	179	104.11	1.91	22.134587	0.0001
Nasal polyp	J33grp	3	1 to 18	63	26.42	2.84	18.170201	0.0002
Other and unspecified dermatitis	L30grp	3	3 to 21	212	136.79	1.67	17.69348	0.0002
Urticaria	L50grp	3	2 to 22	86	42.73	2.34	16.885269	0.0003
Other pruritus	L298grp	4	1 to 23	98	52.04	2.18	16.073458	0.0004
Nasal polyp, unspecified	J339grp	4	1 to 16	36	12.09	3.74	15.37685	0.0015
Conjunctivitis	H10grp	3	35 to 77	364	269.11	1.53	15.078999	0.0023
Dermatitis, unspecified	L309grp	4	3 to 30	220	148.85	1.63	14.815456	0.0026
Psoriasis vulgaris	L400grp	4	3 to 30	64	31.35	2.54	13.02374	0.0164

Table 7b. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Age Group

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
65-79 years								
Atopic dermatitis	L20grp	3	1 to 13	211	51.47	5.48	138.267645	0.0001
Other atopic dermatitis	L208grp	4	1 to 13	122	27.68	6.02	86.692134	0.0001
Other atopic dermatitis	L2089grp	5	1 to 20	106	26.02	6.59	68.939223	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 13	88	23.58	4.75	51.482962	0.0001
Intrinsic (allergic) eczema	L2084grp	5	6 to 13	26	5.6	5.63	19.528669	0.0001
Nasal polyp	J33grp	3	5 to 35	44	16.61	4.05	15.476899	0.0008
80+ years								
Atopic dermatitis	L20grp	3	1 to 14	84	17.29	7.11	66.110933	0.0001
Other atopic dermatitis	L208grp	4	1 to 9	41	6.68	8.32	40.108998	0.0001
Other atopic dermatitis	L2089grp	5	1 to 29	54	14.96	6.94	30.304312	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 19	41	9.07	7.27	29.94516	0.0001
Atopic neurodermatitis	L2081grp	5	4 to 12	*****	0.32	infinity	14.988342	0.0007
Psoriasis vulgaris	L400grp	4	2 to 10	13	1.76	10.55	14.777113	0.0009
Intrinsic (allergic) eczema	L2084grp	5	49 to 61	15	3.04	7.33	11.995173	0.0207

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

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

Table 7c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2017								
Atopic dermatitis	L20grp	3	1 to 20	109	31.35	5.34	58.331432	0.0001
Other atopic dermatitis	L208grp	4	1 to 21	63	19.73	4.68	29.914981	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	48	12.49	6.22	29.134154	0.0001
Other atopic dermatitis	L2089grp	5	2 to 14	30	7.22	5.77	19.961857	0.0001
Conjunctivitis	H10grp	3	44 to 64	71	34.4	2.44	14.883022	0.0004
Psoriasis	L40grp	3	2 to 16	27	8.98	3.8	11.705148	0.0201
2018								
Atopic dermatitis	L20grp	3	1 to 16	111	33.01	4.52	56.701879	0.0001
Other atopic dermatitis	L208grp	4	1 to 16	67	17.82	5.28	39.573726	0.0001
Other atopic dermatitis	L2089grp	5	1 to 16	48	11.37	6.31	32.526614	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 20	51	17.52	3.8	21.032468	0.0001
Pruritus	L29grp	3	1 to 28	83	39.65	2.63	17.996583	0.0001
Vasomotor and allergic rhinitis	J30grp	3	2 to 22	78	39.84	2.27	14.262769	0.0014
2019								
Atopic dermatitis	L20grp	3	1 to 21	231	78.13	4.13	97.675319	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 27	130	45.16	4.48	52.651302	0.0001
Other atopic dermatitis	L208grp	4	1 to 21	121	42.91	3.81	47.391332	0.0001
Other atopic dermatitis	L2089grp	5	1 to 17	67	20.3	4.44	33.311238	0.0001
Intrinsic (allergic) eczema	L2084grp	5	3 to 21	33	12.14	3.46	12.141058	0.0305

Table 7c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2020								
Atopic dermatitis	L20grp	3	1 to 18	221	65.05	4.81	114.494274	0.0001
Other atopic dermatitis	L208grp	4	1 to 13	104	27.92	4.86	60.727325	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 18	96	24.81	5.67	58.729717	0.0001
Other atopic dermatitis	L2089grp	5	1 to 14	81	19.33	5.95	54.403342	0.0001
Influenza due to other identified influenza virus	J10grp	3	3 to 38	38	8.69	30.07	26.755894	0.0001
Influenza due to other identified influenza virus with other respiratory manifestations	J101grp	4	3 to 42	37	8.49	128.84	25.955006	0.0001
Pruritus	L29grp	3	2 to 24	119	62.44	2.22	20.204343	0.0001
Influenza due to unidentified influenza virus	J11grp	3	2 to 29	24	5.74	10.57	16.088356	0.0004
Other pruritus	L298grp	4	1 to 26	77	37.71	2.5	15.684674	0.0005
Influenza due to unidentified influenza virus with other respiratory manifestations	J111grp	4	2 to 29	23	5.42	11.05	15.674045	0.0005
Other allergic rhinitis	J308grp	4	7 to 11	21	4.81	4.9	14.757223	0.0012
Other and unspecified dermatitis	L30grp	3	1 to 18	116	69.42	1.82	12.986751	0.0127
Other allergic rhinitis	J3089grp	5	5 to 11	19	4.81	4.56	11.923953	0.0413
2021								
Atopic dermatitis	L20grp	3	3 to 18	204	56.18	4.99	115.358267	0.0001
Other atopic dermatitis	L208grp	4	3 to 18	127	31.17	5.91	82.610125	0.0001
Other atopic dermatitis	L2089grp	5	3 to 18	88	19.92	6.71	62.683237	0.0001
Atopic dermatitis, unspecified	L209grp	4	2 to 13	66	18.32	4.45	36.915552	0.0001
Nasal polyp	J33grp	3	5 to 33	47	17.99	3.83	16.13612	0.0004
Intrinsic (allergic) eczema	L2084grp	5	4 to 19	29	8.58	4.44	14.909024	0.0016
Urticaria	L50grp	3	1 to 15	41	16.29	2.94	13.141493	0.0122
Other and unspecified dermatitis	L30grp	3	3 to 10	64	31.8	2.13	12.567317	0.0224
Allergic urticaria	L500grp	4	1 to 21	19	4.74	6.73	12.107911	0.039

Table 7c. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Year

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
2022								
Atopic dermatitis	L20grp	3	1 to 15	139	46.89	3.69	58.98927	0.0001
Other atopic dermatitis	L208grp	4	1 to 15	95	27.91	4.44	49.300935	0.0001
Other atopic dermatitis	L2089grp	5	1 to 15	65	17.95	4.84	36.609044	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 21	55	26.03	2.49	12.182434	0.0309
2023								
N/A ³								

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

³No patients indexed in 2023 to ensure complete follow-up time.

Table 7d. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Any Indication								
Yes								
Atopic dermatitis	L20grp	3	1 to 21	366	121.97	4.14	158.240798	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 21	181	56.41	4.58	86.447565	0.0001
Other atopic dermatitis	L208grp	4	2 to 23	190	68.02	3.75	73.215444	0.0001
Pruritus	L29grp	3	2 to 23	417	246.55	1.88	48.731631	0.0001
Other atopic dermatitis	L2089grp	5	1 to 23	103	36.8	3.83	39.821215	0.0001
Nasal polyp	J33grp	3	1 to 18	112	43.56	3.13	37.335107	0.0001
Other and unspecified dermatitis	L30grp	3	1 to 18	468	308.04	1.62	35.809216	0.0001
Vasomotor and allergic rhinitis	J30grp	3	1 to 20	457	314.99	1.54	28.089464	0.0001
Other pruritus	L298grp	4	2 to 23	212	122.16	1.94	27.0365	0.0001
Psoriasis vulgaris	L400grp	4	3 to 21	99	43.49	2.69	25.930686	0.0001
Urticaria	L50grp	3	1 to 23	196	112.73	1.96	25.148571	0.0001
Intrinsic (allergic) eczema	L2084grp	5	6 to 21	57	18.9	3.8	24.821607	0.0001
Dermatitis, unspecified	L309grp	4	1 to 37	647	484.35	1.47	24.718364	0.0001
Other allergic rhinitis	J308grp	4	1 to 28	181	105.3	1.99	22.356253	0.0001
Pruritus, unspecified	L299grp	4	2 to 20	171	97.94	1.92	22.24562	0.0001
Polyp of nasal cavity	J330grp	4	1 to 18	45	13.91	4.32	21.732753	0.0001
Psoriasis	L40grp	3	2 to 14	136	76.44	1.9	18.801448	0.0001
Nasal polyp, unspecified	J339grp	4	1 to 33	88	42.49	2.73	18.561344	0.0001
Conjunctivitis	H10grp	3	41 to 72	607	469.7	1.38	18.383574	0.0001
Severe persistent asthma, uncomplicated	J4550grp	5	2 to 6	12	1.11	14.75	17.675496	0.0001
Other allergic rhinitis	J3089grp	5	1 to 35	158	94.58	2	17.664416	0.0001
Severe persistent asthma	J455grp	4	2 to 6	12	1.35	11.35	15.5835	0.0014
Adverse effects, not elsewhere classified	T78grp	3	1 to 24	209	139.4	1.63	15.048965	0.0028
Rash and other nonspecific skin eruption	R21grp	3	7 to 26	284	202.18	1.48	14.698744	0.0038
Unspecified contact dermatitis	L25grp	3	1 to 23	142	86.99	1.81	14.580295	0.004
Dermatitis due to substances taken internally	L27grp	3	4 to 39	117	68.75	2.07	13.96328	0.0092

Table 7d. Signal Identification Outcome Assessment¹ in Inpatient, Emergency Department, and Ambulatory Visit Care Settings via Tree Temporal Scan Statistic² Conditioned on Node and Time among Dupilumab Initiators, Sensitivity Analysis, in the Sentinel Distributed Database (SDD) from March 1, 2017 to Most Recently Available Data, by Dupilumab Indication

Node Name	Node ID	Node Level	Time Window (Days)	Cases in Window	Expected Cases	Relative Risk	Test Statistic ²	P-Value
Any Indication								
Yes								
Cellulitis and acute lymphangitis of other parts of limb	L031grp	4	7 to 39	195	130.27	1.69	13.935042	0.0097
Cellulitis of other parts of limb	L0311grp	5	7 to 39	195	130.27	1.69	13.935042	0.0097
Other specified dermatitis	L308grp	4	1 to 16	76	38.83	2.17	13.87356	0.0105
Idiopathic urticaria	L501grp	4	4 to 27	51	22.95	2.75	12.669401	0.0404
No								
Atopic dermatitis	L20grp	3	1 to 18	684	229.33	4.47	295.225344	0.0001
Other atopic dermatitis	L208grp	4	1 to 18	424	134.77	4.63	197.711037	0.0001
Other atopic dermatitis	L2089grp	5	1 to 14	274	72.54	5.53	163.164881	0.0001
Atopic dermatitis, unspecified	L209grp	4	1 to 20	274	102.59	3.62	98.112844	0.0001
Intrinsic (allergic) eczema	L2084grp	5	2 to 23	99	41.76	3.03	28.246542	0.0001
Atopic neurodermatitis	L2081grp	5	1 to 12	20	4.4	6.44	14.675642	0.0014
Other and unspecified dermatitis	L30grp	3	3 to 24	68	33.65	2.41	13.500238	0.0045
Dermatitis, unspecified	L309grp	4	3 to 24	51	23.53	2.65	11.990407	0.0242
Other pruritus	L298grp	4	8 to 13	18	4.4	4.69	11.753762	0.0307

¹Outcomes were assessed at the 3,4, and 5th levels with a 400-day washout using the hierarchical ICD-10-CM tree structure.

²Log likelihood ratio (LLR) based test statistic conditioned on Node and Time. See Appendix G.2 for additional details.

Table 8. Summary of Episode-Level¹ Cohort Attrition in the Sentinel Distributed Databases (SDD) from March 1, 2017 to July 31, 2023

	TreeScan Cohort		Tree Temporal Scan Primary Cohort		Tree Temporal Scan Sensitivity Cohort	
	Dupilumab Use		Dupilumab Use		Dupilumab Use	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements						
Enrolled at any point during the query period	327,548,533	N/A	314,084,652	N/A	314,084,652	N/A
Had required coverage type (medical and/or drug coverage)	243,154,681	84,393,852	232,520,069	81,564,583	232,520,069	81,564,583
Enrolled during specified age range	206,542,610	36,612,071	196,222,002	36,298,067	196,222,002	36,298,067
Had requestable medical charts	206,542,610	0	196,222,002	0	196,222,002	0
Met demographic requirements (sex, race, and Hispanic origin)	206,482,203	60,407	196,171,236	50,766	196,171,236	50,766
Members with a valid index event						
Had any cohort-defining claim during the query period	141,129	206,341,074	117,428	196,053,808	117,428	196,053,808
Cohort episodes with a valid index date						
Total number of claims with cohort-identifying codes during the query period	1,716,403	N/A	1,398,224	N/A	1,398,224	N/A
Claim recorded during specified age range	1,707,870	8,533	1,392,740	5,484	1,392,740	5,484
Claim recorded during current look period	1,707,870	0	1,392,740	0	1,392,740	0
Episode defining index claim recorded during the query period	147,938	1,559,932	122,602	1,270,138	122,602	1,270,138
Cohort episodes with required pre-index history						
Had sufficient pre-index continuous enrollment	91,250	56,688	78,607	43,995	78,607	43,995
Met inclusion and exclusion criteria	90,668	582	78,276	331	78,276	331
<i>Episodes excluded for pregnancy outcome</i>		125		108		108
<i>Episodes excluded for ongoing pregnancy</i>		549		272		272
Had sufficient post-index continuous enrollment	89,516	1,152	70,688	7,588	76,083	2,193
Final cohort						
Number of members	85,373	N/A	67,651	N/A	72,828	N/A
Number of episodes	89,516	N/A	70,688	N/A	76,083	N/A

¹Cohorts are formed by first evaluating enrollment and demographic requirements as well as index events among members, then evaluating index dates, pre-index history, and post-index follow-up among episodes. Because of this, the number remaining often increases from the member- to episode-level steps.

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (December 22, 2023)

Masked DP ID	DP Start Date	DP End Date ¹	Cohort Selection Start Date	Cohort Selection End Date		
				TreeScan	Tree Temporal Scan (Primary)	Tree Temporal Scan (Sensitivity)
DP01	01/01/2005	07/31/2022	03/01/17	06/30/22	12/31/21	12/31/21
DP02	01/01/2000	05/31/2023	03/01/17	04/30/23	10/31/22	10/31/22
DP03	01/01/2008	06/30/2023	03/01/17	05/31/23	11/30/22	11/30/22
DP04	01/01/2006	06/30/2023	03/01/17	05/31/23	11/30/22	11/30/22
DP05	01/01/2010	03/31/2023	03/01/17	02/28/23	08/31/22	08/31/22
DP06	01/01/2000	08/31/2022	03/01/17	07/31/22	02/28/22	02/28/22
DP07	01/01/2000	08/31/2022	03/01/17	07/31/22	02/28/22	02/28/22
DP08	01/01/2000	10/31/2022	03/01/17	09/30/22	04/30/22	04/30/22
DP09	01/01/2004	07/31/2023	03/01/17	06/30/23	12/31/22	12/31/22
DP10	01/01/2008	04/30/2023	03/01/17	03/31/23	09/30/22	09/30/22
DP11	01/01/2000	04/30/2023	03/01/17	03/31/23	09/30/22	09/30/22
DP12	01/01/2007	01/31/2023	03/01/17	12/31/22	07/31/22	07/31/22
DP13	01/01/2014	12/31/2020	03/01/17	11/30/20	06/30/20	06/30/20

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

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

Generic Name	Brand Name
Dupilumab	
dupilumab	Dupixent Pen
dupilumab	Dupixent Syringe

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

Code	Description	Code	
		Category	Code Type
Pregnancy Outcomes			
01964	ANESTHESIA FOR ABORTION PROCEDURES	Procedure	CPT-4
01965	Anesthesia for incomplete or missed abortion procedures	Procedure	CPT-4
01966	Anesthesia for induced abortion procedures	Procedure	CPT-4
0W8NXZZ	Division of Female Perineum, External Approach	Procedure	ICD-10-PCS
10900ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Open Approach	Procedure	ICD-10-PCS
10903ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
10904ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10907ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10908ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10A00ZZ	Abortion of Products of Conception, Open Approach	Procedure	ICD-10-PCS
10A03ZZ	Abortion of Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
10A04ZZ	Abortion of Products of Conception, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10A07Z6	Abortion of Products of Conception, Vacuum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10A07ZW	Abortion of Products of Conception, Laminaria, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10A07ZX	Abortion of Products of Conception, Abortifacient, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10A07ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10A08ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10D00Z0	Extraction of Products of Conception, Classical, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low Cervical, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial	Procedure	ICD-10-PCS
10D07Z7	Extraction of Products of Conception, Internal Version, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z8	Extraction of Products of Conception, Other, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D27ZZ	Extraction of products of conception, ectopic, via natural or artificial opening	Procedure	ICD-10-PCS
10D28ZZ	Extraction of products of conception, ectopic, via natural or artificial opening endoscopic	Procedure	ICD-10-PCS
10E0XZZ	Delivery of Products of Conception, External Approach	Procedure	ICD-10-PCS
10S07ZZ	Reposition Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

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

Code	Description	Code	
		Category	Code Type
10T20ZZ	Resection of products of conception, ectopic, open approach	Procedure	ICD-10-PCS
10T23ZZ	Resection of products of conception, ectopic, percutaneous approach	Procedure	ICD-10-PCS
10T24ZZ	Resection of products of conception, ectopic, percutaneous endoscopic approach	Procedure	ICD-10-PCS
10T27ZZ	Resection of products of conception, ectopic, via natural or artificial opening	Procedure	ICD-10-PCS
10T28ZZ	Resection of products of conception, ectopic, via natural or artificial opening endoscopic	Procedure	ICD-10-PCS
59100	Surgical treatment of ectopic pregnancy: tubal or ovarian, requiring salpingectomy and/or oophorectomy, abdominal or vaginal approach	Procedure	CPT-4
59120	Surgical treatment of ectopic pregnancy; tubal or ovarian, requiring salpingectomy and/or oophorectomy, abdominal or vaginal approach	Procedure	CPT-4
59121	Surgical treatment of ectopic pregnancy; tubal or ovarian, without salpingectomy and/or oophorectomy	Procedure	CPT-4
59125	Surgical Treatment Of Ectopic Pregnancy	Procedure	CPT-4
59126	Surgical Treatment Of Ectopic Pregnancy	Procedure	CPT-4
59130	Surgical treatment of ectopic pregnancy; abdominal pregnancy	Procedure	CPT-4
59135	Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy requiring total hysterectomy	Procedure	CPT-4
59136	Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy with partial resection of uterus	Procedure	CPT-4
59140	Surgical treatment of ectopic pregnancy; cervical, with evacuation	Procedure	CPT-4
59150	Laparoscopic treatment of ectopic pregnancy; without salpingectomy and/or oophorectomy	Procedure	CPT-4
59151	Laparoscopic treatment of ectopic pregnancy; with salpingectomy and/or oophorectomy	Procedure	CPT-4
59400	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care	Procedure	CPT-4
59409	Vaginal delivery only (with or without episiotomy and/or forceps);	Procedure	CPT-4
59410	Vaginal delivery only (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care	Procedure	CPT-4
59514	Cesarean delivery only;	Procedure	CPT-4
59515	Cesarean delivery only; including postpartum care	Procedure	CPT-4
59610	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care, after previous cesarean delivery	Procedure	CPT-4
59612	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps);	Procedure	CPT-4
59614	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59618	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery	Procedure	CPT-4

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

Code	Description	Code	
		Category	Code Type
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	Procedure	CPT-4
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	Procedure	CPT-4
59812	Treatment of incomplete abortion, any trimester, completed surgically	Procedure	CPT-4
59820	Treatment of incomplete abortion completed surgically, first trimester	Procedure	CPT-4
59821	Treatment of incomplete abortion completed surgically, second trimester	Procedure	CPT-4
59830	Treatment of septic abortion, completed surgically	Procedure	CPT-4
59840	INDUCED ABORTION, BY DILATION AND CURETTAGE	Procedure	CPT-4
59841	INDUCED ABORTION, BY DILATION AND EVACUATION	Procedure	CPT-4
59850	INDUCED ABORTION, BY ONE OR MORE INTRAAMNIOTIC INJECTIONS	Procedure	CPT-4
59851	INDUCED ABORTION, BY ONE OR MORE INTRAAMNIOTIC INJECTIONS, WITH DILATION AND CURETTAGE AND/OR EVACUATION	Procedure	CPT-4
59852	INDUCED ABORTION, BY ONE OR MORE INTRAAMNIOTIC INJECTIONS, WITH HYSTEROTOMY	Procedure	CPT-4
59855	INDUCED ABORTION, BY ONE OR MORE VAGINAL SUPPOSITORIES	Procedure	CPT-4
59856	INDUCED ABORTION, BY ONE OR MORE VAGINAL SUPPOSITORIES, WITH DILATION AND CURETTAGE AND/OR EVACUATION	Procedure	CPT-4
59857	INDUCED ABORTION, BY ONE OR MORE VAGINAL SUPPOSITORIES, WITH HYSTEROTOMY	Procedure	CPT-4
59870	Evacuation and curettage of uterus for hydatidiform mole	Procedure	CPT-4
88016	Necropsy (autopsy), gross examination only; macerated stillborn	Procedure	CPT-4
000	Ectopic pregnancy	Diagnosis	ICD-10-CM
0000	Abdominal pregnancy	Diagnosis	ICD-10-CM
00000	Abdominal pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
00001	Abdominal pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
0001	Tubal pregnancy	Diagnosis	ICD-10-CM
00010	Tubal pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
000101	Right tubal pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
000102	Left tubal pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
000109	Unspecified tubal pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
00011	Tubal pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000111	Right tubal pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000112	Left tubal pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000119	Unspecified tubal pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
0002	Ovarian pregnancy	Diagnosis	ICD-10-CM
00020	Ovarian pregnancy WITHOUT INTRAUTERINE PREGNANCY	Diagnosis	ICD-10-CM
000201	Right ovarian pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
000202	Left ovarian pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
000209	Unspecified ovarian pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
00021	Ovarian pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000211	Right ovarian pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000212	Left ovarian pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
000219	Unspecified ovarian pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
0008	Other ectopic pregnancy	Diagnosis	ICD-10-CM
00080	Other ectopic pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
00081	Other ectopic pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
0009	Ectopic pregnancy, unspecified	Diagnosis	ICD-10-CM
00090	Unspecified ectopic pregnancy without intrauterine pregnancy	Diagnosis	ICD-10-CM
00091	Unspecified ectopic pregnancy with intrauterine pregnancy	Diagnosis	ICD-10-CM
001	Hydatidiform mole	Diagnosis	ICD-10-CM
0010	Classical hydatidiform mole	Diagnosis	ICD-10-CM
0011	Incomplete and partial hydatidiform mole	Diagnosis	ICD-10-CM
0019	Hydatidiform mole, unspecified	Diagnosis	ICD-10-CM
0020	Blighted ovum and nonhydatidiform mole	Diagnosis	ICD-10-CM
0021	Missed abortion	Diagnosis	ICD-10-CM
00289	Other abnormal products of conception	Diagnosis	ICD-10-CM
0029	Abnormal products of conception, unspecified	Diagnosis	ICD-10-CM
003	Spontaneous abortion	Diagnosis	ICD-10-CM
0030	Genital tract and pelvic infection following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0031	Delayed or excessive hemorrhage following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0032	Embolism following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00330	Unspecified complication following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00331	Shock following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00332	Renal failure following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00333	Metabolic disorder following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00334	Damage to pelvic organs following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00335	Other venous complications following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00336	Cardiac arrest following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00337	Sepsis following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00338	Urinary tract infection following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00339	Incomplete spontaneous abortion with other complications	Diagnosis	ICD-10-CM
0034	Incomplete spontaneous abortion without complication	Diagnosis	ICD-10-CM
0035	Genital tract and pelvic infection following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
0036	Delayed or excessive hemorrhage following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
0037	Embolism following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00380	Unspecified complication following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00381	Shock following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00382	Renal failure following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00383	Metabolic disorder following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00384	Damage to pelvic organs following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00385	Other venous complications following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00386	Cardiac arrest following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
00387	Sepsis following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00388	Urinary tract infection following complete or unspecified spontaneous	Diagnosis	ICD-10-CM
00389	Complete or unspecified spontaneous abortion with other complications	Diagnosis	ICD-10-CM
0039	Complete or unspecified spontaneous abortion without complication	Diagnosis	ICD-10-CM
004	Complications following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
0045	Genital tract and pelvic infection following (induced) termination of	Diagnosis	ICD-10-CM
0046	Delayed or excessive hemorrhage following (induced) termination of	Diagnosis	ICD-10-CM
0047	Embolism following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
0048	(Induced) termination of pregnancy with other and unspecified complications	Diagnosis	ICD-10-CM
00480	(Induced) termination of pregnancy with unspecified complications	Diagnosis	ICD-10-CM
00481	Shock following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00482	Renal failure following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00483	Metabolic disorder following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00484	Damage to pelvic organs following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00485	Other venous complications following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00486	Cardiac arrest following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00487	Sepsis following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00488	Urinary tract infection following (induced) termination of pregnancy	Diagnosis	ICD-10-CM
00489	(Induced) termination of pregnancy with other complications	Diagnosis	ICD-10-CM
0080	Genitl trct and pelvic infct fol ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0081	Delayed or excess hemor fol ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0082	Embolism following ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0083	Shock following ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0084	Renal failure following ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0085	Metabolic disorders following an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0086	Damage to pelvic organs and tiss fol an ect and molar preg	Diagnosis	ICD-10-CM
0087	Oth venous comp following an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
00881	Cardiac arrest following an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
00882	Sepsis following ectopic and molar pregnancy	Diagnosis	ICD-10-CM
00883	Urinary tract infection fol an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
00889	Other complications following an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
0089	Unsp complication following an ectopic and molar pregnancy	Diagnosis	ICD-10-CM
01002	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
01012	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
01022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
01032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
01042	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
01092	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
0114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
01204	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
01214	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
01224	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1404	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1414	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O1494	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O164	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O252	Malnutrition in childbirth	Diagnosis	ICD-10-CM
O2662	Liver and biliary tract disorders in childbirth	Diagnosis	ICD-10-CM
O2672	Subluxation of symphysis (pubis) in childbirth	Diagnosis	ICD-10-CM
O3100X0	Papyraceous fetus, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3100X1	Papyraceous fetus, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3100X2	Papyraceous fetus, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3100X3	Papyraceous fetus, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3100X4	Papyraceous fetus, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3100X5	Papyraceous fetus, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3100X9	Papyraceous fetus, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3102X0	Papyraceous fetus, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3102X1	Papyraceous fetus, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3102X2	Papyraceous fetus, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3102X3	Papyraceous fetus, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3102X4	Papyraceous fetus, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3102X5	Papyraceous fetus, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3102X9	Papyraceous fetus, second trimester, other fetus	Diagnosis	ICD-10-CM
O3103X0	Papyraceous fetus, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3103X1	Papyraceous fetus, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3103X2	Papyraceous fetus, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3103X3	Papyraceous fetus, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3103X4	Papyraceous fetus, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3103X5	Papyraceous fetus, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3103X9	Papyraceous fetus, third trimester, other fetus	Diagnosis	ICD-10-CM
O3110X0	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O3110X1	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3110X2	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3110X3	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3110X4	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3110X5	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3110X9	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3111X0	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3111X1	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3111X2	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3111X3	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3111X4	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3111X5	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3111X9	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3112X0	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3112X1	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3112X2	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3112X3	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3112X4	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3112X5	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3112X9	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3113X0	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3113X1	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O3113X2	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3113X3	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3113X4	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3113X5	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3113X9	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O312	Continuing pregnancy after intrauterine death of one fetus or more	Diagnosis	ICD-10-CM
O3120X0	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3120X1	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3120X2	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3120X3	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3120X4	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3120X5	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3120X9	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3122X0	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3122X1	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3122X2	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3122X3	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3122X4	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3122X5	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3122X9	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3123X1	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3123X2	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O3123X3	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3123X4	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3123X5	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O364	Maternal care for intrauterine death	Diagnosis	ICD-10-CM
O364XX0	Maternal care for intrauterine death, not applicable or unspecified	Diagnosis	ICD-10-CM
O364XX1	Maternal care for intrauterine death, fetus 1	Diagnosis	ICD-10-CM
O364XX2	Maternal care for intrauterine death, fetus 2	Diagnosis	ICD-10-CM
O364XX3	Maternal care for intrauterine death, fetus 3	Diagnosis	ICD-10-CM
O364XX4	Maternal care for intrauterine death, fetus 4	Diagnosis	ICD-10-CM
O364XX5	Maternal care for intrauterine death, fetus 5	Diagnosis	ICD-10-CM
O364XX9	Maternal care for intrauterine death, other fetus	Diagnosis	ICD-10-CM
O6010X1	Preterm labor with preterm delivery, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O6010X2	Preterm labor with preterm delivery, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O6010X3	Preterm labor with preterm delivery, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O6010X4	Preterm labor with preterm delivery, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O6010X5	Preterm labor with preterm delivery, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O6010X9	Preterm labor with preterm delivery, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	Diagnosis	ICD-10-CM
O6012X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6013X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O6014X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6014X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester, other	Diagnosis	ICD-10-CM
O6020X0	Term delivery with preterm labor, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6020X1	Term delivery with preterm labor, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O6020X2	Term delivery with preterm labor, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O6020X3	Term delivery with preterm labor, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O6020X4	Term delivery with preterm labor, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O6020X5	Term delivery with preterm labor, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O6020X9	Term delivery with preterm labor, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O6022X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6022X1	Term delivery with preterm labor, second trimester, fetus 1	Diagnosis	ICD-10-CM
O6022X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O6022X3	Term delivery with preterm labor, second trimester, fetus 3	Diagnosis	ICD-10-CM
O6022X4	Term delivery with preterm labor, second trimester, fetus 4	Diagnosis	ICD-10-CM
O6022X5	Term delivery with preterm labor, second trimester, fetus 5	Diagnosis	ICD-10-CM
O6022X9	Term delivery with preterm labor, second trimester, other fetus	Diagnosis	ICD-10-CM
O6023X0	Term delivery with preterm labor, third trimester, not applicable or	Diagnosis	ICD-10-CM
O6023X1	Term delivery with preterm labor, third trimester, fetus 1	Diagnosis	ICD-10-CM
O6023X2	Term delivery with preterm labor, third trimester, fetus 2	Diagnosis	ICD-10-CM
O6023X3	Term delivery with preterm labor, third trimester, fetus 3	Diagnosis	ICD-10-CM
O6023X4	Term delivery with preterm labor, third trimester, fetus 4	Diagnosis	ICD-10-CM
O6023X5	Term delivery with preterm labor, third trimester, fetus 5	Diagnosis	ICD-10-CM
O6023X9	Term delivery with preterm labor, third trimester, other fetus	Diagnosis	ICD-10-CM
O632	Delayed delivery of second twin, triplet, etc	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	Diagnosis	ICD-10-CM
O678	Other intrapartum hemorrhage	Diagnosis	ICD-10-CM
O679	Intrapartum hemorrhage, unspecified	Diagnosis	ICD-10-CM
O68	Labor and delivery complicated by abnormality of fetal acid-base balance	Diagnosis	ICD-10-CM
O690XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O690XX1	Labor and delivery complicated by prolapse of cord, fetus 1	Diagnosis	ICD-10-CM
O690XX2	Labor and delivery complicated by prolapse of cord, fetus 2	Diagnosis	ICD-10-CM
O690XX3	Labor and delivery complicated by prolapse of cord, fetus 3	Diagnosis	ICD-10-CM
O690XX4	Labor and delivery complicated by prolapse of cord, fetus 4	Diagnosis	ICD-10-CM
O690XX5	Labor and delivery complicated by prolapse of cord, fetus 5	Diagnosis	ICD-10-CM
O690XX9	Labor and delivery complicated by prolapse of cord, other fetus	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O691XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O691XX1	Labor and delivery complicated by cord around neck, with compression, fetus	Diagnosis	ICD-10-CM
O691XX2	Labor and delivery complicated by cord around neck, with compression, fetus	Diagnosis	ICD-10-CM
O691XX3	Labor and delivery complicated by cord around neck, with compression, fetus	Diagnosis	ICD-10-CM
O691XX4	Labor and delivery complicated by cord around neck, with compression, fetus	Diagnosis	ICD-10-CM
O691XX5	Labor and delivery complicated by cord around neck, with compression, fetus	Diagnosis	ICD-10-CM
O691XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	Diagnosis	ICD-10-CM
O692XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O692XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O692XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O692XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O692XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O692XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O692XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	Diagnosis	ICD-10-CM
O693XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O693XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O693XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O693XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O693XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O693XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O693XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O694XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	Diagnosis	ICD-10-CM
O694XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O694XX2	Labor and delivery complicated by vasa previa, fetus 2	Diagnosis	ICD-10-CM
O694XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O694XX4	Labor and delivery complicated by vasa previa, fetus 4	Diagnosis	ICD-10-CM
O694XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O694XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O695XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O695XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O695XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O695XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	Diagnosis	ICD-10-CM
O695XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	Diagnosis	ICD-10-CM
O695XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
O695XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O6981X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6981X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O6981X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O6981X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O6981X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O6981X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM
O6981X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM
O6982X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6982X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O6982X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O6982X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O6982X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O6982X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O6982X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O6989X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	Diagnosis	ICD-10-CM
O6989X1	Labor and delivery complicated by other cord complications, fetus 1	Diagnosis	ICD-10-CM
O6989X2	Labor and delivery complicated by other cord complications, fetus 2	Diagnosis	ICD-10-CM
O6989X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O6989X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O6989X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O6989X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O699XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O699XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O699XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM
O699XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O699XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O699XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O699XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O700	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O701	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O7020	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O7021	Third degree perineal laceration during delivery, IIIa	Diagnosis	ICD-10-CM
O7022	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O7023	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O703	Fourth degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O704	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O709	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O740	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O741	Other pulmonary complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O742	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O743	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O744	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O745	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O746	Other complications of spinal and epidural anesthesia during labor and	Diagnosis	ICD-10-CM
O747	Failed or difficult intubation for anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O748	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O749	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM
O750	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM
O751	Shock during or following labor and delivery	Diagnosis	ICD-10-CM
O755	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
O7581	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
O7582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean	Diagnosis	ICD-10-CM
O7589	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
O759	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
O76	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
O770	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
O778	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
O779	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
O80	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O8802	Air embolism in childbirth	Diagnosis	ICD-10-CM
O8812	Amniotic fluid embolism in childbirth	Diagnosis	ICD-10-CM
O8822	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
O8832	Pyemic and septic embolism in childbirth	Diagnosis	ICD-10-CM
O8882	Other embolism in childbirth	Diagnosis	ICD-10-CM
O9802	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O9812	Syphilis complicating childbirth	Diagnosis	ICD-10-CM
O9822	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O9832	Other infections with a predominantly sexual mode of transmission complicating childbirth	Diagnosis	ICD-10-CM
O9842	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O9852	Other viral diseases complicating childbirth	Diagnosis	ICD-10-CM
O9862	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O9872	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O9882	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O9892	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
O9902	Anemia complicating childbirth	Diagnosis	ICD-10-CM
O9912	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
O99214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
O99314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
O99324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
O99354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
O9942	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O9952	Diseases of the respiratory system complicating childbirth	Diagnosis	ICD-10-CM
O9962	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM
O9972	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
O99814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM
O99824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A22	Injury, poisoning and certain other consequences of external causes complicating childbirth	Diagnosis	ICD-10-CM
O9A32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P030	Newborn affected by breech delivery and extraction	Diagnosis	ICD-10-CM
P032	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P033	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P034	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P035	Newborn affected by precipitate delivery	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P0821	Post-term newborn	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
P95	Stillbirth	Diagnosis	ICD-10-CM
S0190	Mifepristone, oral, 200 mg	Procedure	HCPCS
S0191	Misoprostol, oral, 200 mcg	Procedure	HCPCS
S0199	Medically induced abortion by oral ingestion of medication including all associated services and supplies (e.g., patient counseling, office visits, confirmation of pregnancy by HCG, ultrasound to confirm duration of pregnancy, ultrasound to confirm completion of abortion) except drugs	Procedure	HCPCS
S2260	Induced abortion, 17 to 24 weeks	Procedure	HCPCS
S2262	Abortion for maternal indication, 25 weeks or greater	Procedure	HCPCS
S2265	Induced abortion, 25 to 28 weeks	Procedure	HCPCS
S2266	Induced abortion, 29 to 31 weeks	Procedure	HCPCS
S2267	Induced abortion, 32 weeks or greater	Procedure	HCPCS
Z332	Encounter for elective termination of pregnancy	Diagnosis	ICD-10-CM
Z370	Single live birth	Diagnosis	ICD-10-CM
Z371	Single stillbirth	Diagnosis	ICD-10-CM
Z372	Twins, both liveborn	Diagnosis	ICD-10-CM
Z373	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z374	Twins, both stillborn	Diagnosis	ICD-10-CM
Z3750	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z3751	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z3752	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z3753	Quintuplets, all liveborn	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
Z3754	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z3759	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triples, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z377	Other multiple births, all stillborn	Diagnosis	ICD-10-CM
Z379	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z3800	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3801	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z381	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z382	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3830	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3831	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z384	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z385	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3861	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3862	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3863	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3864	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3865	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3866	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3868	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3869	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z387	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z388	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Ongoing Pregnancy Markers			
58321	ARTIFICIAL INSEMINATION; INTRA-CERVICAL	Procedure	CPT-4
58322	ARTIFICIAL INSEMINATION	Procedure	CPT-4
58974	TRANSFER OF EMBRYO	Procedure	CPT-4
58976	Gamete, zygote, or embryo intrafallopian transfer	Procedure	CPT-4
59015	Chorionic villus sampling, any method	Procedure	CPT-4
76801	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, first trimester (< 14 weeks 0 days), transabdominal approach; single or first gestation	Procedure	CPT-4
76802	Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, first trimester (< 14 weeks 0 days), transabdominal approach; each additional gestation	Procedure	CPT-4
76805	Complete Ultrasounds (Maternal and Fetal Evaluation); Second and Third Trimesters (Single or First Gestation)	Procedure	CPT-4
76810	Complete Ultrasounds (Maternal and Fetal Evaluation); Second and Third Trimesters (Each Additional Gestation)	Procedure	CPT-4

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Code	Description	Code	
		Category	Code Type
76811	Detailed fetal anatomic examination (single or first gestation)	Procedure	CPT-4
76812	Detailed fetal anatomic examination (Each additional Gestation)	Procedure	CPT-4
76813	Nuchal Translucency Measurement (Single or First Gestation)	Procedure	CPT-4
76814	Nuchal Translucency Measurement (Each Additional Gestation)	Procedure	CPT-4
81420	Fetal aneuploidy genomic sequence analysis, cell-free fetal DNA	Procedure	CPT-4
81507	Fetal aneuploidy (trisomy 21, 18, and 13) DNA sequence analysis of selected regions using maternal plasma algorithm reported as a risk score for each trisomy	Procedure	CPT-4
82106	Alpha-fetoprotein, amniotic	Procedure	CPT-4
82677	Assay of estriol	Procedure	CPT-4
82950	Glucose; post glucose dose (includes glucose)	Procedure	CPT-4
82951	Glucose; tolerance test (GTT), 3 specimens (includes glucose)	Procedure	CPT-4
82952	Glucose tolerance test, additional beyond 3 specimens	Procedure	CPT-4
84163	PAPP-A serum test	Procedure	CPT-4
86336	Inhibin A	Procedure	CPT-4
87081	Group B streptococcus screening (genital)	Procedure	CPT-4
O0901	Supervision of pregnancy with history of infertility, first trimester	Diagnosis	ICD-10-CM
O0902	Supervision of pregnancy with history of infertility, second trimester	Diagnosis	ICD-10-CM
O0903	Supervision of pregnancy with history of infertility, third trimester	Diagnosis	ICD-10-CM
O0911	Supervision of pregnancy with history of ectopic pregnancy, first trimester	Diagnosis	ICD-10-CM
O0912	Supervision of pregnancy with history of ectopic pregnancy, second trimester	Diagnosis	ICD-10-CM
O0913	Supervision of pregnancy with history of ectopic pregnancy, third trimester	Diagnosis	ICD-10-CM
O09211	Supervision of pregnancy with history of pre-term labor, first trimester	Diagnosis	ICD-10-CM
O09212	Supervision of pregnancy with history of pre-term labor, second trimester	Diagnosis	ICD-10-CM
O09213	Supervision of pregnancy with history of pre-term labor, third trimester	Diagnosis	ICD-10-CM
O09291	Supervision of pregnancy with other poor reproductive or obstetric history, first trimester	Diagnosis	ICD-10-CM
O09292	Supervision of pregnancy with other poor reproductive or obstetric history, second trimester	Diagnosis	ICD-10-CM
O09293	Supervision of pregnancy with other poor reproductive or obstetric history, third trimester	Diagnosis	ICD-10-CM
O0931	Supervision of pregnancy with insufficient antenatal care, first trimester	Diagnosis	ICD-10-CM
O0932	Supervision of pregnancy with insufficient antenatal care, second trimester	Diagnosis	ICD-10-CM
O0933	Supervision of pregnancy with insufficient antenatal care, third trimester	Diagnosis	ICD-10-CM
O0941	Supervision of pregnancy with grand multiparity, first trimester	Diagnosis	ICD-10-CM
O0942	Supervision of pregnancy with grand multiparity, second trimester	Diagnosis	ICD-10-CM
O0943	Supervision of pregnancy with grand multiparity, third trimester	Diagnosis	ICD-10-CM
O09511	Supervision of elderly primigravida, first trimester	Diagnosis	ICD-10-CM
O09512	Supervision of elderly primigravida, second trimester	Diagnosis	ICD-10-CM
O09513	Supervision of elderly primigravida, third trimester	Diagnosis	ICD-10-CM
O09521	Supervision of elderly multigravida, first trimester	Diagnosis	ICD-10-CM
O09522	Supervision of elderly multigravida, second trimester	Diagnosis	ICD-10-CM
O09523	Supervision of elderly multigravida, third trimester	Diagnosis	ICD-10-CM
O09611	Supervision of young primigravida, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O09612	Supervision of young primigravida, second trimester	Diagnosis	ICD-10-CM
O09613	Supervision of young primigravida, third trimester	Diagnosis	ICD-10-CM
O09621	Supervision of young multigravida, first trimester	Diagnosis	ICD-10-CM
O09622	Supervision of young multigravida, second trimester	Diagnosis	ICD-10-CM
O09623	Supervision of young multigravida, third trimester	Diagnosis	ICD-10-CM
O0971	Supervision of high risk pregnancy due to social problems, first trimester	Diagnosis	ICD-10-CM
O0972	Supervision of high risk pregnancy due to social problems, second trimester	Diagnosis	ICD-10-CM
O0973	Supervision of high risk pregnancy due to social problems, third trimester	Diagnosis	ICD-10-CM
O09811	Supervision of pregnancy resulting from assisted reproductive technology, first trimester	Diagnosis	ICD-10-CM
O09812	Supervision of pregnancy resulting from assisted reproductive technology, second trimester	Diagnosis	ICD-10-CM
O09813	Supervision of pregnancy resulting from assisted reproductive technology, third trimester	Diagnosis	ICD-10-CM
O09821	Supervision of pregnancy with history of in utero procedure during previous pregnancy, first trimester	Diagnosis	ICD-10-CM
O09822	Supervision of pregnancy with history of in utero procedure during previous pregnancy, second trimester	Diagnosis	ICD-10-CM
O09823	Supervision of pregnancy with history of in utero procedure during previous pregnancy, third trimester	Diagnosis	ICD-10-CM
O09891	Supervision of other high risk pregnancies, first trimester	Diagnosis	ICD-10-CM
O09892	Supervision of other high risk pregnancies, second trimester	Diagnosis	ICD-10-CM
O09893	Supervision of other high risk pregnancies, third trimester	Diagnosis	ICD-10-CM
O0991	Supervision of high risk pregnancy, unspecified, first trimester	Diagnosis	ICD-10-CM
O0992	Supervision of high risk pregnancy, unspecified, second trimester	Diagnosis	ICD-10-CM
O0993	Supervision of high risk pregnancy, unspecified, third trimester	Diagnosis	ICD-10-CM
O09A1	Supervision of pregnancy with history of molar pregnancy, first trimester	Diagnosis	ICD-10-CM
O09A2	Supervision of pregnancy with history of molar pregnancy, second trimester	Diagnosis	ICD-10-CM
O09A3	Supervision of pregnancy with history of molar pregnancy, third trimester	Diagnosis	ICD-10-CM
O10011	Pre-existing essential hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10012	Pre-existing essential hypertension complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10013	Pre-existing essential hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10111	Pre-existing hypertensive heart disease complicating pregnancy, first	Diagnosis	ICD-10-CM
O10112	Pre-existing hypertensive heart disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10113	Pre-existing hypertensive heart disease complicating pregnancy, third	Diagnosis	ICD-10-CM
O10211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O10312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10411	Pre-existing secondary hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10412	Pre-existing secondary hypertension complicating pregnancy, second	Diagnosis	ICD-10-CM
O10413	Pre-existing secondary hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10911	Unspecified pre-existing hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10912	Unspecified pre-existing hypertension complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10913	Unspecified pre-existing hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O111	Pre-existing hypertension with pre-eclampsia, first trimester	Diagnosis	ICD-10-CM
O112	Pre-existing hypertension with pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O113	Pre-existing hypertension with pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1201	Gestational edema, first trimester	Diagnosis	ICD-10-CM
O1202	Gestational edema, second trimester	Diagnosis	ICD-10-CM
O1203	Gestational edema, third trimester	Diagnosis	ICD-10-CM
O1211	Gestational proteinuria, first trimester	Diagnosis	ICD-10-CM
O1212	Gestational proteinuria, second trimester	Diagnosis	ICD-10-CM
O1213	Gestational proteinuria, third trimester	Diagnosis	ICD-10-CM
O1221	Gestational edema with proteinuria, first trimester	Diagnosis	ICD-10-CM
O1222	Gestational edema with proteinuria, second trimester	Diagnosis	ICD-10-CM
O1223	Gestational edema with proteinuria, third trimester	Diagnosis	ICD-10-CM
O131	Gestational [pregnancy-induced] hypertension without significant proteinuria, first trimester	Diagnosis	ICD-10-CM
O132	Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester	Diagnosis	ICD-10-CM
O133	Gestational [pregnancy-induced] hypertension without significant proteinuria, third trimester	Diagnosis	ICD-10-CM
O1402	Mild to moderate pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1403	Mild to moderate pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1412	Severe pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1413	Severe pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1422	HELLP syndrome (HELLP), second trimester	Diagnosis	ICD-10-CM
O1423	HELLP syndrome (HELLP), third trimester	Diagnosis	ICD-10-CM
O1492	Unspecified pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1493	Unspecified pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1502	Eclampsia complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O1503	Eclampsia complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O161	Unspecified maternal hypertension, first trimester	Diagnosis	ICD-10-CM
O162	Unspecified maternal hypertension, second trimester	Diagnosis	ICD-10-CM
O163	Unspecified maternal hypertension, third trimester	Diagnosis	ICD-10-CM
O2201	Varicose veins of lower extremity in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2202	Varicose veins of lower extremity in pregnancy, second trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O2203	Varicose veins of lower extremity in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2211	Genital varices in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2212	Genital varices in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2213	Genital varices in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2221	Superficial thrombophlebitis in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2222	Superficial thrombophlebitis in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2223	Superficial thrombophlebitis in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2231	Deep phlebothrombosis in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2232	Deep phlebothrombosis in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2233	Deep phlebothrombosis in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2241	Hemorrhoids in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2242	Hemorrhoids in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2243	Hemorrhoids in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2251	Cerebral venous thrombosis in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2252	Cerebral venous thrombosis in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2253	Cerebral venous thrombosis in pregnancy, third trimester	Diagnosis	ICD-10-CM
O228X1	Other venous complications in pregnancy, first trimester	Diagnosis	ICD-10-CM
O228X2	Other venous complications in pregnancy, second trimester	Diagnosis	ICD-10-CM
O228X3	Other venous complications in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2291	Venous complication in pregnancy, unspecified, first trimester	Diagnosis	ICD-10-CM
O2292	Venous complication in pregnancy, unspecified, second trimester	Diagnosis	ICD-10-CM
O2293	Venous complication in pregnancy, unspecified, third trimester	Diagnosis	ICD-10-CM
O2301	Infections of kidney in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2302	Infections of kidney in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2303	Infections of kidney in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2311	Infections of bladder in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2312	Infections of bladder in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2313	Infections of bladder in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2321	Infections of urethra in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2322	Infections of urethra in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2323	Infections of urethra in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2331	Infections of other parts of urinary tract in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2332	Infections of other parts of urinary tract in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2333	Infections of other parts of urinary tract in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2341	Unspecified infection of urinary tract in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2342	Unspecified infection of urinary tract in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2343	Unspecified infection of urinary tract in pregnancy, third trimester	Diagnosis	ICD-10-CM
O23511	Infections of cervix in pregnancy, first trimester	Diagnosis	ICD-10-CM
O23512	Infections of cervix in pregnancy, second trimester	Diagnosis	ICD-10-CM
O23513	Infections of cervix in pregnancy, third trimester	Diagnosis	ICD-10-CM
O23521	Salpingo-oophoritis in pregnancy, first trimester	Diagnosis	ICD-10-CM
O23522	Salpingo-oophoritis in pregnancy, second trimester	Diagnosis	ICD-10-CM
O23523	Salpingo-oophoritis in pregnancy, third trimester	Diagnosis	ICD-10-CM
O23591	Infection of other part of genital tract in pregnancy, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O23592	Infection of other part of genital tract in pregnancy, second trimester	Diagnosis	ICD-10-CM
O23593	Infection of other part of genital tract in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2391	Unspecified genitourinary tract infection in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2392	Unspecified genitourinary tract infection in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2393	Unspecified genitourinary tract infection in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2511	Malnutrition in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2512	Malnutrition in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2513	Malnutrition in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2601	Excessive weight gain in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2602	Excessive weight gain in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2603	Excessive weight gain in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2611	Low weight gain in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2612	Low weight gain in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2613	Low weight gain in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2621	Pregnancy care for patient with recurrent pregnancy loss, first trimester	Diagnosis	ICD-10-CM
O2622	Pregnancy care for patient with recurrent pregnancy loss, second trimester	Diagnosis	ICD-10-CM
O2623	Pregnancy care for patient with recurrent pregnancy loss, third trimester	Diagnosis	ICD-10-CM
O2631	Retained intrauterine contraceptive device in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2632	Retained intrauterine contraceptive device in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2633	Retained intrauterine contraceptive device in pregnancy, third trimester	Diagnosis	ICD-10-CM
O2641	Herpes gestationis, first trimester	Diagnosis	ICD-10-CM
O2642	Herpes gestationis, second trimester	Diagnosis	ICD-10-CM
O2643	Herpes gestationis, third trimester	Diagnosis	ICD-10-CM
O2651	Maternal hypotension syndrome, first trimester	Diagnosis	ICD-10-CM
O2652	Maternal hypotension syndrome, second trimester	Diagnosis	ICD-10-CM
O2653	Maternal hypotension syndrome, third trimester	Diagnosis	ICD-10-CM
O26611	Liver and biliary tract disorders in pregnancy, first trimester	Diagnosis	ICD-10-CM
O26612	Liver and biliary tract disorders in pregnancy, second trimester	Diagnosis	ICD-10-CM
O26613	Liver and biliary tract disorders in pregnancy, third trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O26711	Subluxation of symphysis (pubis) in pregnancy, first trimester	Diagnosis	ICD-10-CM
O26712	Subluxation of symphysis (pubis) in pregnancy, second trimester	Diagnosis	ICD-10-CM
O26713	Subluxation of symphysis (pubis) in pregnancy, third trimester	Diagnosis	ICD-10-CM
O26811	Pregnancy related exhaustion and fatigue, first trimester	Diagnosis	ICD-10-CM
O26812	Pregnancy related exhaustion and fatigue, second trimester	Diagnosis	ICD-10-CM
O26813	Pregnancy related exhaustion and fatigue, third trimester	Diagnosis	ICD-10-CM
O26821	Pregnancy related peripheral neuritis, first trimester	Diagnosis	ICD-10-CM
O26822	Pregnancy related peripheral neuritis, second trimester	Diagnosis	ICD-10-CM
O26823	Pregnancy related peripheral neuritis, third trimester	Diagnosis	ICD-10-CM
O26831	Pregnancy related renal disease, first trimester	Diagnosis	ICD-10-CM
O26832	Pregnancy related renal disease, second trimester	Diagnosis	ICD-10-CM
O26833	Pregnancy related renal disease, third trimester	Diagnosis	ICD-10-CM
O26841	Uterine size-date discrepancy, first trimester	Diagnosis	ICD-10-CM
O26842	Uterine size-date discrepancy, second trimester	Diagnosis	ICD-10-CM
O26843	Uterine size-date discrepancy, third trimester	Diagnosis	ICD-10-CM
O26851	Spotting complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O26852	Spotting complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O26853	Spotting complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O26872	Cervical shortening, second trimester	Diagnosis	ICD-10-CM
O26873	Cervical shortening, third trimester	Diagnosis	ICD-10-CM
O26891	Other specified pregnancy related conditions, first trimester	Diagnosis	ICD-10-CM
O26892	Other specified pregnancy related conditions, second trimester	Diagnosis	ICD-10-CM
O26893	Other specified pregnancy related conditions, third trimester	Diagnosis	ICD-10-CM
O2691	Pregnancy related conditions, unspecified, first trimester	Diagnosis	ICD-10-CM
O2692	Pregnancy related conditions, unspecified, second trimester	Diagnosis	ICD-10-CM
O2693	Pregnancy related conditions, unspecified, third trimester	Diagnosis	ICD-10-CM
O29011	Aspiration pneumonitis due to anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29012	Aspiration pneumonitis due to anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29013	Aspiration pneumonitis due to anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29021	Pressure collapse of lung due to anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29022	Pressure collapse of lung due to anesthesia during pregnancy, second	Diagnosis	ICD-10-CM
O29023	Pressure collapse of lung due to anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29091	Other pulmonary complications of anesthesia during pregnancy, first	Diagnosis	ICD-10-CM
O29092	Other pulmonary complications of anesthesia during pregnancy, second	Diagnosis	ICD-10-CM
O29093	Other pulmonary complications of anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29111	Cardiac arrest due to anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29112	Cardiac arrest due to anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29113	Cardiac arrest due to anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29121	Cardiac failure due to anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29122	Cardiac failure due to anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29123	Cardiac failure due to anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29191	Other cardiac complications of anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O29192	Other cardiac complications of anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29193	Other cardiac complications of anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29211	Cerebral anoxia due to anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29212	Cerebral anoxia due to anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29213	Cerebral anoxia due to anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O29291	Other central nervous system complications of anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O29292	Other central nervous system complications of anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O29293	Other central nervous system complications of anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O293X1	Toxic reaction to local anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O293X2	Toxic reaction to local anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O293X3	Toxic reaction to local anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O2941	Spinal and epidural anesthesia induced headache during pregnancy, first trimester	Diagnosis	ICD-10-CM
O2942	Spinal and epidural anesthesia induced headache during pregnancy, second trimester	Diagnosis	ICD-10-CM
O2943	Spinal and epidural anesthesia induced headache during pregnancy, third trimester	Diagnosis	ICD-10-CM
O295X1	Other complications of spinal and epidural anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O295X2	Other complications of spinal and epidural anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O295X3	Other complications of spinal and epidural anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O2961	Failed or difficult intubation for anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O2962	Failed or difficult intubation for anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O2963	Failed or difficult intubation for anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O298X1	Other complications of anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O298X2	Other complications of anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O298X3	Other complications of anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O2991	Unspecified complication of anesthesia during pregnancy, first trimester	Diagnosis	ICD-10-CM
O2992	Unspecified complication of anesthesia during pregnancy, second trimester	Diagnosis	ICD-10-CM
O2993	Unspecified complication of anesthesia during pregnancy, third trimester	Diagnosis	ICD-10-CM
O30001	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30002	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30003	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30011	Twin pregnancy, monochorionic/monoamniotic, first trimester	Diagnosis	ICD-10-CM
O30012	Twin pregnancy, monochorionic/monoamniotic, second trimester	Diagnosis	ICD-10-CM
O30013	Twin pregnancy, monochorionic/monoamniotic, third trimester	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O30021	Conjoined twin pregnancy, first trimester	Diagnosis	ICD-10-CM
O30022	Conjoined twin pregnancy, second trimester	Diagnosis	ICD-10-CM
O30023	Conjoined twin pregnancy, third trimester	Diagnosis	ICD-10-CM
O30031	Twin pregnancy, monochorionic/diamniotic, first trimester	Diagnosis	ICD-10-CM
O30032	Twin pregnancy, monochorionic/diamniotic, second trimester	Diagnosis	ICD-10-CM
O30033	Twin pregnancy, monochorionic/diamniotic, third trimester	Diagnosis	ICD-10-CM
O30041	Twin pregnancy, dichorionic/diamniotic, first trimester	Diagnosis	ICD-10-CM
O30042	Twin pregnancy, dichorionic/diamniotic, second trimester	Diagnosis	ICD-10-CM
O30043	Twin pregnancy, dichorionic/diamniotic, third trimester	Diagnosis	ICD-10-CM
O30091	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30092	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30093	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30101	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30102	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30103	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30111	Triplet pregnancy with two or more monochorionic fetuses, first trimester	Diagnosis	ICD-10-CM
O30112	Triplet pregnancy with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30113	Triplet pregnancy with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30121	Triplet pregnancy with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30122	Triplet pregnancy with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM
O30123	Triplet pregnancy with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30131	Triplet pregnancy, trichorionic/triamniotic, first trimester	Diagnosis	ICD-10-CM
O30132	Triplet pregnancy, trichorionic/triamniotic, second trimester	Diagnosis	ICD-10-CM
O30133	Triplet pregnancy, trichorionic/triamniotic, third trimester	Diagnosis	ICD-10-CM
O30191	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30192	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30193	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30201	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30202	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30203	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30211	Quadruplet pregnancy with two or more monochorionic fetuses, first	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O30212	Quadruplet pregnancy with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30213	Quadruplet pregnancy with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30221	Quadruplet pregnancy with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30222	Quadruplet pregnancy with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM
O30223	Quadruplet pregnancy with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30231	Quadruplet pregnancy, quadrachorionic/quadra-amniotic, first trimester	Diagnosis	ICD-10-CM
O30232	Quadruplet pregnancy, quadrachorionic/quadra-amniotic, second trimester	Diagnosis	ICD-10-CM
O30233	Quadruplet pregnancy, quadrachorionic/quadra-amniotic, third trimester	Diagnosis	ICD-10-CM
O30291	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30292	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30293	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30801	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30802	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30803	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30811	Other specified multiple gestation with two or more monochorionic fetuses, first trimester	Diagnosis	ICD-10-CM
O30812	Other specified multiple gestation with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30813	Other specified multiple gestation with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30821	Other specified multiple gestation with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30822	Other specified multiple gestation with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM
O30823	Other specified multiple gestation with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30831	Other specified multiple gestation, number of chorions and amnions are both equal to the number of fetuses, first trimester	Diagnosis	ICD-10-CM
O30832	Other specified multiple gestation, number of chorions and amnions are both equal to the number of fetuses, second trimester	Diagnosis	ICD-10-CM
O30833	Other specified multiple gestation, number of chorions and amnions are both equal to the number of fetuses, third trimester	Diagnosis	ICD-10-CM
O30891	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O30892	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30893	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O3091	Multiple gestation, unspecified, first trimester	Diagnosis	ICD-10-CM
O3092	Multiple gestation, unspecified, second trimester	Diagnosis	ICD-10-CM
O3093	Multiple gestation, unspecified, third trimester	Diagnosis	ICD-10-CM
O3101X0	Papyraceous fetus, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3101X1	Papyraceous fetus, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3101X2	Papyraceous fetus, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3101X3	Papyraceous fetus, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3101X4	Papyraceous fetus, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3101X5	Papyraceous fetus, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3101X9	Papyraceous fetus, first trimester, other fetus	Diagnosis	ICD-10-CM
O3102X0	Papyraceous fetus, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3102X1	Papyraceous fetus, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3102X2	Papyraceous fetus, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3102X3	Papyraceous fetus, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3102X4	Papyraceous fetus, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3102X5	Papyraceous fetus, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3102X9	Papyraceous fetus, second trimester, other fetus	Diagnosis	ICD-10-CM
O3103X0	Papyraceous fetus, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3103X1	Papyraceous fetus, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3103X2	Papyraceous fetus, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3103X3	Papyraceous fetus, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3103X4	Papyraceous fetus, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3103X5	Papyraceous fetus, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3103X9	Papyraceous fetus, third trimester, other fetus	Diagnosis	ICD-10-CM
O3111X0	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3111X1	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3111X2	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3111X3	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3111X4	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3111X5	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3111X9	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3112X0	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O3112X1	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3112X2	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3112X3	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3112X4	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3112X5	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3112X9	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3113X0	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3113X1	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3113X2	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3113X3	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3113X4	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3113X5	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3113X9	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O3121X0	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3121X1	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3121X2	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3121X3	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3121X4	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3121X5	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3121X9	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3122X0	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3122X1	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O3122X2	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3122X3	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3122X4	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3122X5	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3122X9	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3123X0	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3123X1	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3123X2	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3123X3	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3123X4	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3123X5	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3123X9	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O3131X0	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3131X1	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3131X2	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3131X3	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3131X4	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3131X5	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3131X9	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3132X0	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3132X1	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3132X2	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
O3132X3	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3132X4	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3132X5	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3132X9	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3133X0	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3133X1	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3133X2	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3133X3	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3133X4	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3133X5	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3133X9	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O318X10	Other complications specific to multiple gestation, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X11	Other complications specific to multiple gestation, first trimester, fetus 1	Diagnosis	ICD-10-CM
O318X12	Other complications specific to multiple gestation, first trimester, fetus 2	Diagnosis	ICD-10-CM
O318X13	Other complications specific to multiple gestation, first trimester, fetus 3	Diagnosis	ICD-10-CM
O318X14	Other complications specific to multiple gestation, first trimester, fetus 4	Diagnosis	ICD-10-CM
O318X15	Other complications specific to multiple gestation, first trimester, fetus 5	Diagnosis	ICD-10-CM
O318X19	Other complications specific to multiple gestation, first trimester, other fetus	Diagnosis	ICD-10-CM
O318X20	Other complications specific to multiple gestation, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X21	Other complications specific to multiple gestation, second trimester, fetus 1	Diagnosis	ICD-10-CM
O318X22	Other complications specific to multiple gestation, second trimester, fetus 2	Diagnosis	ICD-10-CM
O318X23	Other complications specific to multiple gestation, second trimester, fetus 3	Diagnosis	ICD-10-CM
O318X24	Other complications specific to multiple gestation, second trimester, fetus 4	Diagnosis	ICD-10-CM
O318X25	Other complications specific to multiple gestation, second trimester, fetus 5	Diagnosis	ICD-10-CM
O318X29	Other complications specific to multiple gestation, second trimester, other fetus	Diagnosis	ICD-10-CM
O318X30	Other complications specific to multiple gestation, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X31	Other complications specific to multiple gestation, third trimester, fetus 1	Diagnosis	ICD-10-CM
O318X32	Other complications specific to multiple gestation, third trimester, fetus 2	Diagnosis	ICD-10-CM
O318X33	Other complications specific to multiple gestation, third trimester, fetus 3	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O318X34	Other complications specific to multiple gestation, third trimester, fetus 4	Diagnosis	ICD-10-CM
O318X35	Other complications specific to multiple gestation, third trimester, fetus 5	Diagnosis	ICD-10-CM
O318X39	Other complications specific to multiple gestation, third trimester, other fetus	Diagnosis	ICD-10-CM
O3401	Maternal care for unspecified congenital malformation of uterus, first trimester	Diagnosis	ICD-10-CM
O3402	Maternal care for unspecified congenital malformation of uterus, second trimester	Diagnosis	ICD-10-CM
O3403	Maternal care for unspecified congenital malformation of uterus, third trimester	Diagnosis	ICD-10-CM
O3411	Maternal care for benign tumor of corpus uteri, first trimester	Diagnosis	ICD-10-CM
O3412	Maternal care for benign tumor of corpus uteri, second trimester	Diagnosis	ICD-10-CM
O3413	Maternal care for benign tumor of corpus uteri, third trimester	Diagnosis	ICD-10-CM
O3431	Maternal care for cervical incompetence, first trimester	Diagnosis	ICD-10-CM
O3432	Maternal care for cervical incompetence, second trimester	Diagnosis	ICD-10-CM
O3433	Maternal care for cervical incompetence, third trimester	Diagnosis	ICD-10-CM
O3441	Maternal care for other abnormalities of cervix, first trimester	Diagnosis	ICD-10-CM
O3442	Maternal care for other abnormalities of cervix, second trimester	Diagnosis	ICD-10-CM
O3443	Maternal care for other abnormalities of cervix, third trimester	Diagnosis	ICD-10-CM
O34511	Maternal care for incarceration of gravid uterus, first trimester	Diagnosis	ICD-10-CM
O34512	Maternal care for incarceration of gravid uterus, second trimester	Diagnosis	ICD-10-CM
O34513	Maternal care for incarceration of gravid uterus, third trimester	Diagnosis	ICD-10-CM
O34521	Maternal care for prolapse of gravid uterus, first trimester	Diagnosis	ICD-10-CM
O34522	Maternal care for prolapse of gravid uterus, second trimester	Diagnosis	ICD-10-CM
O34523	Maternal care for prolapse of gravid uterus, third trimester	Diagnosis	ICD-10-CM
O34531	Maternal care for retroversion of gravid uterus, first trimester	Diagnosis	ICD-10-CM
O34532	Maternal care for retroversion of gravid uterus, second trimester	Diagnosis	ICD-10-CM
O34533	Maternal care for retroversion of gravid uterus, third trimester	Diagnosis	ICD-10-CM
O34591	Maternal care for other abnormalities of gravid uterus, first trimester	Diagnosis	ICD-10-CM
O34592	Maternal care for other abnormalities of gravid uterus, second trimester	Diagnosis	ICD-10-CM
O34593	Maternal care for other abnormalities of gravid uterus, third trimester	Diagnosis	ICD-10-CM
O3461	Maternal care for abnormality of vagina, first trimester	Diagnosis	ICD-10-CM
O3462	Maternal care for abnormality of vagina, second trimester	Diagnosis	ICD-10-CM
O3463	Maternal care for abnormality of vagina, third trimester	Diagnosis	ICD-10-CM
O3471	Maternal care for abnormality of vulva and perineum, first trimester	Diagnosis	ICD-10-CM
O3472	Maternal care for abnormality of vulva and perineum, second trimester	Diagnosis	ICD-10-CM
O3473	Maternal care for abnormality of vulva and perineum, third trimester	Diagnosis	ICD-10-CM
O3481	Maternal care for other abnormalities of pelvic organs, first trimester	Diagnosis	ICD-10-CM
O3482	Maternal care for other abnormalities of pelvic organs, second trimester	Diagnosis	ICD-10-CM
O3483	Maternal care for other abnormalities of pelvic organs, third trimester	Diagnosis	ICD-10-CM
O3491	Maternal care for abnormality of pelvic organ, unspecified, first trimester	Diagnosis	ICD-10-CM
O3492	Maternal care for abnormality of pelvic organ, unspecified, second trimester	Diagnosis	ICD-10-CM
O3493	Maternal care for abnormality of pelvic organ, unspecified, third trimester	Diagnosis	ICD-10-CM
O360110	Maternal care for anti-D [Rh] antibodies, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
O360111	Maternal care for anti-D [Rh] antibodies, first trimester, fetus 1	Diagnosis	ICD-10-CM
O360112	Maternal care for anti-D [Rh] antibodies, first trimester, fetus 2	Diagnosis	ICD-10-CM
O360113	Maternal care for anti-D [Rh] antibodies, first trimester, fetus 3	Diagnosis	ICD-10-CM
O360114	Maternal care for anti-D [Rh] antibodies, first trimester, fetus 4	Diagnosis	ICD-10-CM
O360115	Maternal care for anti-D [Rh] antibodies, first trimester, fetus 5	Diagnosis	ICD-10-CM
O360119	Maternal care for anti-D [Rh] antibodies, first trimester, other fetus	Diagnosis	ICD-10-CM
O360120	Maternal care for anti-D [Rh] antibodies, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O360121	Maternal care for anti-D [Rh] antibodies, second trimester, fetus 1	Diagnosis	ICD-10-CM
O360122	Maternal care for anti-D [Rh] antibodies, second trimester, fetus 2	Diagnosis	ICD-10-CM
O360123	Maternal care for anti-D [Rh] antibodies, second trimester, fetus 3	Diagnosis	ICD-10-CM
O360124	Maternal care for anti-D [Rh] antibodies, second trimester, fetus 4	Diagnosis	ICD-10-CM
O360125	Maternal care for anti-D [Rh] antibodies, second trimester, fetus 5	Diagnosis	ICD-10-CM
O360129	Maternal care for anti-D [Rh] antibodies, second trimester, other fetus	Diagnosis	ICD-10-CM
O360130	Maternal care for anti-D [Rh] antibodies, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O360131	Maternal care for anti-D [Rh] antibodies, third trimester, fetus 1	Diagnosis	ICD-10-CM
O360132	Maternal care for anti-D [Rh] antibodies, third trimester, fetus 2	Diagnosis	ICD-10-CM
O360133	Maternal care for anti-D [Rh] antibodies, third trimester, fetus 3	Diagnosis	ICD-10-CM
O360134	Maternal care for anti-D [Rh] antibodies, third trimester, fetus 4	Diagnosis	ICD-10-CM
O360135	Maternal care for anti-D [Rh] antibodies, third trimester, fetus 5	Diagnosis	ICD-10-CM
O360139	Maternal care for anti-D [Rh] antibodies, third trimester, other fetus	Diagnosis	ICD-10-CM
O360910	Maternal care for other rhesus isoimmunization, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O360911	Maternal care for other rhesus isoimmunization, first trimester, fetus 1	Diagnosis	ICD-10-CM
O360912	Maternal care for other rhesus isoimmunization, first trimester, fetus 2	Diagnosis	ICD-10-CM
O360913	Maternal care for other rhesus isoimmunization, first trimester, fetus 3	Diagnosis	ICD-10-CM
O360914	Maternal care for other rhesus isoimmunization, first trimester, fetus 4	Diagnosis	ICD-10-CM
O360915	Maternal care for other rhesus isoimmunization, first trimester, fetus 5	Diagnosis	ICD-10-CM
O360919	Maternal care for other rhesus isoimmunization, first trimester, other fetus	Diagnosis	ICD-10-CM
O360920	Maternal care for other rhesus isoimmunization, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O360921	Maternal care for other rhesus isoimmunization, second trimester, fetus 1	Diagnosis	ICD-10-CM
O360922	Maternal care for other rhesus isoimmunization, second trimester, fetus 2	Diagnosis	ICD-10-CM
O360923	Maternal care for other rhesus isoimmunization, second trimester, fetus 3	Diagnosis	ICD-10-CM
O360924	Maternal care for other rhesus isoimmunization, second trimester, fetus 4	Diagnosis	ICD-10-CM
O360925	Maternal care for other rhesus isoimmunization, second trimester, fetus 5	Diagnosis	ICD-10-CM
O360929	Maternal care for other rhesus isoimmunization, second trimester, other fetus	Diagnosis	ICD-10-CM
O360930	Maternal care for other rhesus isoimmunization, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O360931	Maternal care for other rhesus isoimmunization, third trimester, fetus 1	Diagnosis	ICD-10-CM
O360932	Maternal care for other rhesus isoimmunization, third trimester, fetus 2	Diagnosis	ICD-10-CM
O360933	Maternal care for other rhesus isoimmunization, third trimester, fetus 3	Diagnosis	ICD-10-CM
O360934	Maternal care for other rhesus isoimmunization, third trimester, fetus 4	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O360935	Maternal care for other rhesus isoimmunization, third trimester, fetus 5	Diagnosis	ICD-10-CM
O360939	Maternal care for other rhesus isoimmunization, third trimester, other fetus	Diagnosis	ICD-10-CM
O361110	Maternal care for Anti-A sensitization, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O361111	Maternal care for Anti-A sensitization, first trimester, fetus 1	Diagnosis	ICD-10-CM
O361112	Maternal care for Anti-A sensitization, first trimester, fetus 2	Diagnosis	ICD-10-CM
O361113	Maternal care for Anti-A sensitization, first trimester, fetus 3	Diagnosis	ICD-10-CM
O361114	Maternal care for Anti-A sensitization, first trimester, fetus 4	Diagnosis	ICD-10-CM
O361115	Maternal care for Anti-A sensitization, first trimester, fetus 5	Diagnosis	ICD-10-CM
O361119	Maternal care for Anti-A sensitization, first trimester, other fetus	Diagnosis	ICD-10-CM
O361120	Maternal care for Anti-A sensitization, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O361121	Maternal care for Anti-A sensitization, second trimester, fetus 1	Diagnosis	ICD-10-CM
O361122	Maternal care for Anti-A sensitization, second trimester, fetus 2	Diagnosis	ICD-10-CM
O361123	Maternal care for Anti-A sensitization, second trimester, fetus 3	Diagnosis	ICD-10-CM
O361124	Maternal care for Anti-A sensitization, second trimester, fetus 4	Diagnosis	ICD-10-CM
O361125	Maternal care for Anti-A sensitization, second trimester, fetus 5	Diagnosis	ICD-10-CM
O361129	Maternal care for Anti-A sensitization, second trimester, other fetus	Diagnosis	ICD-10-CM
O361130	Maternal care for Anti-A sensitization, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O361131	Maternal care for Anti-A sensitization, third trimester, fetus 1	Diagnosis	ICD-10-CM
O361132	Maternal care for Anti-A sensitization, third trimester, fetus 2	Diagnosis	ICD-10-CM
O361133	Maternal care for Anti-A sensitization, third trimester, fetus 3	Diagnosis	ICD-10-CM
O361134	Maternal care for Anti-A sensitization, third trimester, fetus 4	Diagnosis	ICD-10-CM
O361135	Maternal care for Anti-A sensitization, third trimester, fetus 5	Diagnosis	ICD-10-CM
O361139	Maternal care for Anti-A sensitization, third trimester, other fetus	Diagnosis	ICD-10-CM
O361910	Maternal care for other isoimmunization, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O361911	Maternal care for other isoimmunization, first trimester, fetus 1	Diagnosis	ICD-10-CM
O361912	Maternal care for other isoimmunization, first trimester, fetus 2	Diagnosis	ICD-10-CM
O361913	Maternal care for other isoimmunization, first trimester, fetus 3	Diagnosis	ICD-10-CM
O361914	Maternal care for other isoimmunization, first trimester, fetus 4	Diagnosis	ICD-10-CM
O361915	Maternal care for other isoimmunization, first trimester, fetus 5	Diagnosis	ICD-10-CM
O361919	Maternal care for other isoimmunization, first trimester, other fetus	Diagnosis	ICD-10-CM
O361920	Maternal care for other isoimmunization, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O361921	Maternal care for other isoimmunization, second trimester, fetus 1	Diagnosis	ICD-10-CM
O361922	Maternal care for other isoimmunization, second trimester, fetus 2	Diagnosis	ICD-10-CM
O361923	Maternal care for other isoimmunization, second trimester, fetus 3	Diagnosis	ICD-10-CM
O361924	Maternal care for other isoimmunization, second trimester, fetus 4	Diagnosis	ICD-10-CM
O361925	Maternal care for other isoimmunization, second trimester, fetus 5	Diagnosis	ICD-10-CM
O361929	Maternal care for other isoimmunization, second trimester, other fetus	Diagnosis	ICD-10-CM
O361930	Maternal care for other isoimmunization, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O361931	Maternal care for other isoimmunization, third trimester, fetus 1	Diagnosis	ICD-10-CM
O361932	Maternal care for other isoimmunization, third trimester, fetus 2	Diagnosis	ICD-10-CM
O361933	Maternal care for other isoimmunization, third trimester, fetus 3	Diagnosis	ICD-10-CM
O361934	Maternal care for other isoimmunization, third trimester, fetus 4	Diagnosis	ICD-10-CM
O361935	Maternal care for other isoimmunization, third trimester, fetus 5	Diagnosis	ICD-10-CM
O361939	Maternal care for other isoimmunization, third trimester, other fetus	Diagnosis	ICD-10-CM
O3621X0	Maternal care for hydrops fetalis, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3621X1	Maternal care for hydrops fetalis, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3621X2	Maternal care for hydrops fetalis, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3621X3	Maternal care for hydrops fetalis, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3621X4	Maternal care for hydrops fetalis, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3621X5	Maternal care for hydrops fetalis, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3621X9	Maternal care for hydrops fetalis, first trimester, other fetus	Diagnosis	ICD-10-CM
O3622X0	Maternal care for hydrops fetalis, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3622X1	Maternal care for hydrops fetalis, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3622X2	Maternal care for hydrops fetalis, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3622X3	Maternal care for hydrops fetalis, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3622X4	Maternal care for hydrops fetalis, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3622X5	Maternal care for hydrops fetalis, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3622X9	Maternal care for hydrops fetalis, second trimester, other fetus	Diagnosis	ICD-10-CM
O3623X0	Maternal care for hydrops fetalis, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3623X1	Maternal care for hydrops fetalis, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3623X2	Maternal care for hydrops fetalis, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3623X3	Maternal care for hydrops fetalis, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3623X4	Maternal care for hydrops fetalis, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3623X5	Maternal care for hydrops fetalis, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3623X9	Maternal care for hydrops fetalis, third trimester, other fetus	Diagnosis	ICD-10-CM
O365110	Maternal care for known or suspected placental insufficiency, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O365111	Maternal care for known or suspected placental insufficiency, first trimester, fetus 1	Diagnosis	ICD-10-CM
O365112	Maternal care for known or suspected placental insufficiency, first trimester, fetus 2	Diagnosis	ICD-10-CM
O365113	Maternal care for known or suspected placental insufficiency, first trimester, fetus 3	Diagnosis	ICD-10-CM
O365114	Maternal care for known or suspected placental insufficiency, first trimester, fetus 4	Diagnosis	ICD-10-CM
O365115	Maternal care for known or suspected placental insufficiency, first trimester, fetus 5	Diagnosis	ICD-10-CM
O365119	Maternal care for known or suspected placental insufficiency, first trimester, other fetus	Diagnosis	ICD-10-CM
O365120	Maternal care for known or suspected placental insufficiency, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O365121	Maternal care for known or suspected placental insufficiency, second trimester, fetus 1	Diagnosis	ICD-10-CM
O365122	Maternal care for known or suspected placental insufficiency, second trimester, fetus 2	Diagnosis	ICD-10-CM
O365123	Maternal care for known or suspected placental insufficiency, second trimester, fetus 3	Diagnosis	ICD-10-CM
O365124	Maternal care for known or suspected placental insufficiency, second trimester, fetus 4	Diagnosis	ICD-10-CM
O365125	Maternal care for known or suspected placental insufficiency, second trimester, fetus 5	Diagnosis	ICD-10-CM
O365129	Maternal care for known or suspected placental insufficiency, second trimester, other fetus	Diagnosis	ICD-10-CM
O365130	Maternal care for known or suspected placental insufficiency, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O365131	Maternal care for known or suspected placental insufficiency, third trimester, fetus 1	Diagnosis	ICD-10-CM
O365132	Maternal care for known or suspected placental insufficiency, third trimester, fetus 2	Diagnosis	ICD-10-CM
O365133	Maternal care for known or suspected placental insufficiency, third trimester, fetus 3	Diagnosis	ICD-10-CM
O365134	Maternal care for known or suspected placental insufficiency, third trimester, fetus 4	Diagnosis	ICD-10-CM
O365135	Maternal care for known or suspected placental insufficiency, third trimester, fetus 5	Diagnosis	ICD-10-CM
O365139	Maternal care for known or suspected placental insufficiency, third trimester, other fetus	Diagnosis	ICD-10-CM
O365910	Maternal care for other known or suspected poor fetal growth, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O365911	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 1	Diagnosis	ICD-10-CM
O365912	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 2	Diagnosis	ICD-10-CM
O365913	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 3	Diagnosis	ICD-10-CM
O365914	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 4	Diagnosis	ICD-10-CM
O365915	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 5	Diagnosis	ICD-10-CM
O365919	Maternal care for other known or suspected poor fetal growth, first trimester, other fetus	Diagnosis	ICD-10-CM
O365920	Maternal care for other known or suspected poor fetal growth, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O365921	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 1	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O365922	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 2	Diagnosis	ICD-10-CM
O365923	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 3	Diagnosis	ICD-10-CM
O365924	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 4	Diagnosis	ICD-10-CM
O365925	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 5	Diagnosis	ICD-10-CM
O365929	Maternal care for other known or suspected poor fetal growth, second trimester, other fetus	Diagnosis	ICD-10-CM
O365930	Maternal care for other known or suspected poor fetal growth, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O365931	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 1	Diagnosis	ICD-10-CM
O365932	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 2	Diagnosis	ICD-10-CM
O365933	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 3	Diagnosis	ICD-10-CM
O365934	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 4	Diagnosis	ICD-10-CM
O365935	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 5	Diagnosis	ICD-10-CM
O365939	Maternal care for other known or suspected poor fetal growth, third trimester, other fetus	Diagnosis	ICD-10-CM
O3661X0	Maternal care for excessive fetal growth, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3661X1	Maternal care for excessive fetal growth, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3661X2	Maternal care for excessive fetal growth, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3661X3	Maternal care for excessive fetal growth, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3661X4	Maternal care for excessive fetal growth, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3661X5	Maternal care for excessive fetal growth, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3661X9	Maternal care for excessive fetal growth, first trimester, other fetus	Diagnosis	ICD-10-CM
O3662X0	Maternal care for excessive fetal growth, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3662X1	Maternal care for excessive fetal growth, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3662X2	Maternal care for excessive fetal growth, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3662X3	Maternal care for excessive fetal growth, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3662X4	Maternal care for excessive fetal growth, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3662X5	Maternal care for excessive fetal growth, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3662X9	Maternal care for excessive fetal growth, second trimester, other fetus	Diagnosis	ICD-10-CM
O3663X0	Maternal care for excessive fetal growth, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3663X1	Maternal care for excessive fetal growth, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3663X2	Maternal care for excessive fetal growth, third trimester, fetus 2	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O3663X3	Maternal care for excessive fetal growth, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3663X4	Maternal care for excessive fetal growth, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3663X5	Maternal care for excessive fetal growth, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3663X9	Maternal care for excessive fetal growth, third trimester, other fetus	Diagnosis	ICD-10-CM
O3671X0	Maternal care for viable fetus in abdominal pregnancy, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3671X1	Maternal care for viable fetus in abdominal pregnancy, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3671X2	Maternal care for viable fetus in abdominal pregnancy, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3671X3	Maternal care for viable fetus in abdominal pregnancy, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3671X4	Maternal care for viable fetus in abdominal pregnancy, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3671X5	Maternal care for viable fetus in abdominal pregnancy, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3671X9	Maternal care for viable fetus in abdominal pregnancy, first trimester, other fetus	Diagnosis	ICD-10-CM
O3672X0	Maternal care for viable fetus in abdominal pregnancy, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3672X1	Maternal care for viable fetus in abdominal pregnancy, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3672X2	Maternal care for viable fetus in abdominal pregnancy, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3672X3	Maternal care for viable fetus in abdominal pregnancy, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3672X4	Maternal care for viable fetus in abdominal pregnancy, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3672X5	Maternal care for viable fetus in abdominal pregnancy, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3672X9	Maternal care for viable fetus in abdominal pregnancy, second trimester, other fetus	Diagnosis	ICD-10-CM
O3673X0	Maternal care for viable fetus in abdominal pregnancy, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3673X1	Maternal care for viable fetus in abdominal pregnancy, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3673X2	Maternal care for viable fetus in abdominal pregnancy, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3673X3	Maternal care for viable fetus in abdominal pregnancy, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3673X4	Maternal care for viable fetus in abdominal pregnancy, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3673X5	Maternal care for viable fetus in abdominal pregnancy, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3673X9	Maternal care for viable fetus in abdominal pregnancy, third trimester, other fetus	Diagnosis	ICD-10-CM
O368120	Decreased fetal movements, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368121	Decreased fetal movements, second trimester, fetus 1	Diagnosis	ICD-10-CM
O368122	Decreased fetal movements, second trimester, fetus 2	Diagnosis	ICD-10-CM
O368123	Decreased fetal movements, second trimester, fetus 3	Diagnosis	ICD-10-CM
O368124	Decreased fetal movements, second trimester, fetus 4	Diagnosis	ICD-10-CM
O368125	Decreased fetal movements, second trimester, fetus 5	Diagnosis	ICD-10-CM
O368129	Decreased fetal movements, second trimester, other fetus	Diagnosis	ICD-10-CM
O368130	Decreased fetal movements, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O368131	Decreased fetal movements, third trimester, fetus 1	Diagnosis	ICD-10-CM
O368132	Decreased fetal movements, third trimester, fetus 2	Diagnosis	ICD-10-CM
O368133	Decreased fetal movements, third trimester, fetus 3	Diagnosis	ICD-10-CM
O368134	Decreased fetal movements, third trimester, fetus 4	Diagnosis	ICD-10-CM
O368135	Decreased fetal movements, third trimester, fetus 5	Diagnosis	ICD-10-CM
O368139	Decreased fetal movements, third trimester, other fetus	Diagnosis	ICD-10-CM
O368210	Fetal anemia and thrombocytopenia, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368211	Fetal anemia and thrombocytopenia, first trimester, fetus 1	Diagnosis	ICD-10-CM
O368212	Fetal anemia and thrombocytopenia, first trimester, fetus 2	Diagnosis	ICD-10-CM
O368213	Fetal anemia and thrombocytopenia, first trimester, fetus 3	Diagnosis	ICD-10-CM
O368214	Fetal anemia and thrombocytopenia, first trimester, fetus 4	Diagnosis	ICD-10-CM
O368215	Fetal anemia and thrombocytopenia, first trimester, fetus 5	Diagnosis	ICD-10-CM
O368219	Fetal anemia and thrombocytopenia, first trimester, other fetus	Diagnosis	ICD-10-CM
O368220	Fetal anemia and thrombocytopenia, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368221	Fetal anemia and thrombocytopenia, second trimester, fetus 1	Diagnosis	ICD-10-CM
O368222	Fetal anemia and thrombocytopenia, second trimester, fetus 2	Diagnosis	ICD-10-CM
O368223	Fetal anemia and thrombocytopenia, second trimester, fetus 3	Diagnosis	ICD-10-CM
O368224	Fetal anemia and thrombocytopenia, second trimester, fetus 4	Diagnosis	ICD-10-CM
O368225	Fetal anemia and thrombocytopenia, second trimester, fetus 5	Diagnosis	ICD-10-CM
O368229	Fetal anemia and thrombocytopenia, second trimester, other fetus	Diagnosis	ICD-10-CM
O368230	Fetal anemia and thrombocytopenia, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368231	Fetal anemia and thrombocytopenia, third trimester, fetus 1	Diagnosis	ICD-10-CM
O368232	Fetal anemia and thrombocytopenia, third trimester, fetus 2	Diagnosis	ICD-10-CM
O368233	Fetal anemia and thrombocytopenia, third trimester, fetus 3	Diagnosis	ICD-10-CM
O368234	Fetal anemia and thrombocytopenia, third trimester, fetus 4	Diagnosis	ICD-10-CM
O368235	Fetal anemia and thrombocytopenia, third trimester, fetus 5	Diagnosis	ICD-10-CM
O368239	Fetal anemia and thrombocytopenia, third trimester, other fetus	Diagnosis	ICD-10-CM
O368310	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368311	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, fetus 1	Diagnosis	ICD-10-CM
O368312	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, fetus 2	Diagnosis	ICD-10-CM
O368313	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, fetus 3	Diagnosis	ICD-10-CM
O368314	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, fetus 4	Diagnosis	ICD-10-CM
O368315	Maternal care for abnormalities of the fetal heart rate or rhythm, first trimester, fetus 5	Diagnosis	ICD-10-CM
O368320	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O368321	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, fetus 1	Diagnosis	ICD-10-CM
O368322	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, fetus 2	Diagnosis	ICD-10-CM
O368323	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, fetus 3	Diagnosis	ICD-10-CM
O368324	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, fetus 4	Diagnosis	ICD-10-CM
O368325	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, fetus 5	Diagnosis	ICD-10-CM
O368329	Maternal care for abnormalities of the fetal heart rate or rhythm, second trimester, other fetus	Diagnosis	ICD-10-CM
O368330	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368331	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, fetus 1	Diagnosis	ICD-10-CM
O368332	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, fetus 2	Diagnosis	ICD-10-CM
O368333	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, fetus 3	Diagnosis	ICD-10-CM
O368334	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, fetus 4	Diagnosis	ICD-10-CM
O368335	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, fetus 5	Diagnosis	ICD-10-CM
O368339	Maternal care for abnormalities of the fetal heart rate or rhythm, third trimester, other fetus	Diagnosis	ICD-10-CM
O368910	Maternal care for other specified fetal problems, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368911	Maternal care for other specified fetal problems, first trimester, fetus 1	Diagnosis	ICD-10-CM
O368912	Maternal care for other specified fetal problems, first trimester, fetus 2	Diagnosis	ICD-10-CM
O368913	Maternal care for other specified fetal problems, first trimester, fetus 3	Diagnosis	ICD-10-CM
O368914	Maternal care for other specified fetal problems, first trimester, fetus 4	Diagnosis	ICD-10-CM
O368915	Maternal care for other specified fetal problems, first trimester, fetus 5	Diagnosis	ICD-10-CM
O368919	Maternal care for other specified fetal problems, first trimester, other fetus	Diagnosis	ICD-10-CM
O368920	Maternal care for other specified fetal problems, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O368921	Maternal care for other specified fetal problems, second trimester, fetus 1	Diagnosis	ICD-10-CM
O368922	Maternal care for other specified fetal problems, second trimester, fetus 2	Diagnosis	ICD-10-CM
O368923	Maternal care for other specified fetal problems, second trimester, fetus 3	Diagnosis	ICD-10-CM
O368924	Maternal care for other specified fetal problems, second trimester, fetus 4	Diagnosis	ICD-10-CM
O368925	Maternal care for other specified fetal problems, second trimester, fetus 5	Diagnosis	ICD-10-CM
O368929	Maternal care for other specified fetal problems, second trimester, other	Diagnosis	ICD-10-CM
O368930	Maternal care for other specified fetal problems, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O368931	Maternal care for other specified fetal problems, third trimester, fetus 1	Diagnosis	ICD-10-CM
O368932	Maternal care for other specified fetal problems, third trimester, fetus 2	Diagnosis	ICD-10-CM
O368933	Maternal care for other specified fetal problems, third trimester, fetus 3	Diagnosis	ICD-10-CM
O368934	Maternal care for other specified fetal problems, third trimester, fetus 4	Diagnosis	ICD-10-CM
O368935	Maternal care for other specified fetal problems, third trimester, fetus 5	Diagnosis	ICD-10-CM
O368939	Maternal care for other specified fetal problems, third trimester, other fetus	Diagnosis	ICD-10-CM
O3691X0	Maternal care for fetal problem, unspecified, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3691X1	Maternal care for fetal problem, unspecified, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3691X2	Maternal care for fetal problem, unspecified, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3691X3	Maternal care for fetal problem, unspecified, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3691X4	Maternal care for fetal problem, unspecified, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3691X5	Maternal care for fetal problem, unspecified, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3691X9	Maternal care for fetal problem, unspecified, first trimester, other fetus	Diagnosis	ICD-10-CM
O3692X0	Maternal care for fetal problem, unspecified, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3692X1	Maternal care for fetal problem, unspecified, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3692X2	Maternal care for fetal problem, unspecified, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3692X3	Maternal care for fetal problem, unspecified, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3692X4	Maternal care for fetal problem, unspecified, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3692X5	Maternal care for fetal problem, unspecified, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3692X9	Maternal care for fetal problem, unspecified, second trimester, other fetus	Diagnosis	ICD-10-CM
O3693X0	Maternal care for fetal problem, unspecified, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3693X1	Maternal care for fetal problem, unspecified, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3693X2	Maternal care for fetal problem, unspecified, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3693X3	Maternal care for fetal problem, unspecified, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3693X4	Maternal care for fetal problem, unspecified, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3693X5	Maternal care for fetal problem, unspecified, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3693X9	Maternal care for fetal problem, unspecified, third trimester, other fetus	Diagnosis	ICD-10-CM
O401XX0	Polyhydramnios, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O401XX1	Polyhydramnios, first trimester, fetus 1	Diagnosis	ICD-10-CM
O401XX2	Polyhydramnios, first trimester, fetus 2	Diagnosis	ICD-10-CM
O401XX3	Polyhydramnios, first trimester, fetus 3	Diagnosis	ICD-10-CM
O401XX4	Polyhydramnios, first trimester, fetus 4	Diagnosis	ICD-10-CM
O401XX5	Polyhydramnios, first trimester, fetus 5	Diagnosis	ICD-10-CM
O401XX9	Polyhydramnios, first trimester, other fetus	Diagnosis	ICD-10-CM
O402XX0	Polyhydramnios, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O402XX1	Polyhydramnios, second trimester, fetus 1	Diagnosis	ICD-10-CM
O402XX2	Polyhydramnios, second trimester, fetus 2	Diagnosis	ICD-10-CM
O402XX3	Polyhydramnios, second trimester, fetus 3	Diagnosis	ICD-10-CM
O402XX4	Polyhydramnios, second trimester, fetus 4	Diagnosis	ICD-10-CM
O402XX5	Polyhydramnios, second trimester, fetus 5	Diagnosis	ICD-10-CM
O402XX9	Polyhydramnios, second trimester, other fetus	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O403XX0	Polyhydramnios, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O403XX1	Polyhydramnios, third trimester, fetus 1	Diagnosis	ICD-10-CM
O403XX2	Polyhydramnios, third trimester, fetus 2	Diagnosis	ICD-10-CM
O403XX3	Polyhydramnios, third trimester, fetus 3	Diagnosis	ICD-10-CM
O403XX4	Polyhydramnios, third trimester, fetus 4	Diagnosis	ICD-10-CM
O403XX5	Polyhydramnios, third trimester, fetus 5	Diagnosis	ICD-10-CM
O403XX9	Polyhydramnios, third trimester, other fetus	Diagnosis	ICD-10-CM
O4101X0	Oligohydramnios, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O4101X1	Oligohydramnios, first trimester, fetus 1	Diagnosis	ICD-10-CM
O4101X2	Oligohydramnios, first trimester, fetus 2	Diagnosis	ICD-10-CM
O4101X3	Oligohydramnios, first trimester, fetus 3	Diagnosis	ICD-10-CM
O4101X4	Oligohydramnios, first trimester, fetus 4	Diagnosis	ICD-10-CM
O4101X5	Oligohydramnios, first trimester, fetus 5	Diagnosis	ICD-10-CM
O4101X9	Oligohydramnios, first trimester, other fetus	Diagnosis	ICD-10-CM
O4102X0	Oligohydramnios, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O4102X1	Oligohydramnios, second trimester, fetus 1	Diagnosis	ICD-10-CM
O4102X2	Oligohydramnios, second trimester, fetus 2	Diagnosis	ICD-10-CM
O4102X3	Oligohydramnios, second trimester, fetus 3	Diagnosis	ICD-10-CM
O4102X4	Oligohydramnios, second trimester, fetus 4	Diagnosis	ICD-10-CM
O4102X5	Oligohydramnios, second trimester, fetus 5	Diagnosis	ICD-10-CM
O4102X9	Oligohydramnios, second trimester, other fetus	Diagnosis	ICD-10-CM
O4103X0	Oligohydramnios, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O4103X1	Oligohydramnios, third trimester, fetus 1	Diagnosis	ICD-10-CM
O4103X2	Oligohydramnios, third trimester, fetus 2	Diagnosis	ICD-10-CM
O4103X3	Oligohydramnios, third trimester, fetus 3	Diagnosis	ICD-10-CM
O4103X4	Oligohydramnios, third trimester, fetus 4	Diagnosis	ICD-10-CM
O4103X5	Oligohydramnios, third trimester, fetus 5	Diagnosis	ICD-10-CM
O4103X9	Oligohydramnios, third trimester, other fetus	Diagnosis	ICD-10-CM
O411010	Infection of amniotic sac and membranes, unspecified, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411011	Infection of amniotic sac and membranes, unspecified, first trimester, fetus 1	Diagnosis	ICD-10-CM
O411012	Infection of amniotic sac and membranes, unspecified, first trimester, fetus 2	Diagnosis	ICD-10-CM
O411013	Infection of amniotic sac and membranes, unspecified, first trimester, fetus 3	Diagnosis	ICD-10-CM
O411014	Infection of amniotic sac and membranes, unspecified, first trimester, fetus 4	Diagnosis	ICD-10-CM
O411015	Infection of amniotic sac and membranes, unspecified, first trimester, fetus 5	Diagnosis	ICD-10-CM
O411019	Infection of amniotic sac and membranes, unspecified, first trimester, other fetus	Diagnosis	ICD-10-CM
O411020	Infection of amniotic sac and membranes, unspecified, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O411021	Infection of amniotic sac and membranes, unspecified, second trimester, fetus 1	Diagnosis	ICD-10-CM
O411022	Infection of amniotic sac and membranes, unspecified, second trimester, fetus 2	Diagnosis	ICD-10-CM
O411023	Infection of amniotic sac and membranes, unspecified, second trimester, fetus 3	Diagnosis	ICD-10-CM
O411024	Infection of amniotic sac and membranes, unspecified, second trimester, fetus 4	Diagnosis	ICD-10-CM
O411025	Infection of amniotic sac and membranes, unspecified, second trimester, fetus 5	Diagnosis	ICD-10-CM
O411029	Infection of amniotic sac and membranes, unspecified, second trimester, other fetus	Diagnosis	ICD-10-CM
O411030	Infection of amniotic sac and membranes, unspecified, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411031	Infection of amniotic sac and membranes, unspecified, third trimester, fetus 1	Diagnosis	ICD-10-CM
O411032	Infection of amniotic sac and membranes, unspecified, third trimester, fetus 2	Diagnosis	ICD-10-CM
O411033	Infection of amniotic sac and membranes, unspecified, third trimester, fetus 3	Diagnosis	ICD-10-CM
O411034	Infection of amniotic sac and membranes, unspecified, third trimester, fetus 4	Diagnosis	ICD-10-CM
O411035	Infection of amniotic sac and membranes, unspecified, third trimester, fetus 5	Diagnosis	ICD-10-CM
O411039	Infection of amniotic sac and membranes, unspecified, third trimester, other fetus	Diagnosis	ICD-10-CM
O411210	Chorioamnionitis, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411211	Chorioamnionitis, first trimester, fetus 1	Diagnosis	ICD-10-CM
O411212	Chorioamnionitis, first trimester, fetus 2	Diagnosis	ICD-10-CM
O411213	Chorioamnionitis, first trimester, fetus 3	Diagnosis	ICD-10-CM
O411214	Chorioamnionitis, first trimester, fetus 4	Diagnosis	ICD-10-CM
O411215	Chorioamnionitis, first trimester, fetus 5	Diagnosis	ICD-10-CM
O411219	Chorioamnionitis, first trimester, other fetus	Diagnosis	ICD-10-CM
O411220	Chorioamnionitis, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411221	Chorioamnionitis, second trimester, fetus 1	Diagnosis	ICD-10-CM
O411222	Chorioamnionitis, second trimester, fetus 2	Diagnosis	ICD-10-CM
O411223	Chorioamnionitis, second trimester, fetus 3	Diagnosis	ICD-10-CM
O411224	Chorioamnionitis, second trimester, fetus 4	Diagnosis	ICD-10-CM
O411225	Chorioamnionitis, second trimester, fetus 5	Diagnosis	ICD-10-CM
O411229	Chorioamnionitis, second trimester, other fetus	Diagnosis	ICD-10-CM
O411230	Chorioamnionitis, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411231	Chorioamnionitis, third trimester, fetus 1	Diagnosis	ICD-10-CM
O411232	Chorioamnionitis, third trimester, fetus 2	Diagnosis	ICD-10-CM
O411233	Chorioamnionitis, third trimester, fetus 3	Diagnosis	ICD-10-CM
O411234	Chorioamnionitis, third trimester, fetus 4	Diagnosis	ICD-10-CM
O411235	Chorioamnionitis, third trimester, fetus 5	Diagnosis	ICD-10-CM
O411239	Chorioamnionitis, third trimester, other fetus	Diagnosis	ICD-10-CM
O411410	Placentitis, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411411	Placentitis, first trimester, fetus 1	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
O411412	Placentitis, first trimester, fetus 2	Diagnosis	ICD-10-CM
O411413	Placentitis, first trimester, fetus 3	Diagnosis	ICD-10-CM
O411414	Placentitis, first trimester, fetus 4	Diagnosis	ICD-10-CM
O411415	Placentitis, first trimester, fetus 5	Diagnosis	ICD-10-CM
O411419	Placentitis, first trimester, other fetus	Diagnosis	ICD-10-CM
O411420	Placentitis, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411421	Placentitis, second trimester, fetus 1	Diagnosis	ICD-10-CM
O411422	Placentitis, second trimester, fetus 2	Diagnosis	ICD-10-CM
O411423	Placentitis, second trimester, fetus 3	Diagnosis	ICD-10-CM
O411424	Placentitis, second trimester, fetus 4	Diagnosis	ICD-10-CM
O411425	Placentitis, second trimester, fetus 5	Diagnosis	ICD-10-CM
O411429	Placentitis, second trimester, other fetus	Diagnosis	ICD-10-CM
O411430	Placentitis, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O411431	Placentitis, third trimester, fetus 1	Diagnosis	ICD-10-CM
O411432	Placentitis, third trimester, fetus 2	Diagnosis	ICD-10-CM
O411433	Placentitis, third trimester, fetus 3	Diagnosis	ICD-10-CM
O411434	Placentitis, third trimester, fetus 4	Diagnosis	ICD-10-CM
O411435	Placentitis, third trimester, fetus 5	Diagnosis	ICD-10-CM
O411439	Placentitis, third trimester, other fetus	Diagnosis	ICD-10-CM
O418X10	Other specified disorders of amniotic fluid and membranes, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O418X11	Other specified disorders of amniotic fluid and membranes, first trimester, fetus 1	Diagnosis	ICD-10-CM
O418X12	Other specified disorders of amniotic fluid and membranes, first trimester, fetus 2	Diagnosis	ICD-10-CM
O418X13	Other specified disorders of amniotic fluid and membranes, first trimester, fetus 3	Diagnosis	ICD-10-CM
O418X14	Other specified disorders of amniotic fluid and membranes, first trimester, fetus 4	Diagnosis	ICD-10-CM
O418X15	Other specified disorders of amniotic fluid and membranes, first trimester, fetus 5	Diagnosis	ICD-10-CM
O418X19	Other specified disorders of amniotic fluid and membranes, first trimester, other fetus	Diagnosis	ICD-10-CM
O418X20	Other specified disorders of amniotic fluid and membranes, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O418X21	Other specified disorders of amniotic fluid and membranes, second trimester, fetus 1	Diagnosis	ICD-10-CM
O418X22	Other specified disorders of amniotic fluid and membranes, second trimester, fetus 2	Diagnosis	ICD-10-CM
O418X23	Other specified disorders of amniotic fluid and membranes, second trimester, fetus 3	Diagnosis	ICD-10-CM
O418X24	Other specified disorders of amniotic fluid and membranes, second trimester, fetus 4	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O418X25	Other specified disorders of amniotic fluid and membranes, second trimester, fetus 5	Diagnosis	ICD-10-CM
O418X29	Other specified disorders of amniotic fluid and membranes, second trimester, other fetus	Diagnosis	ICD-10-CM
O418X30	Other specified disorders of amniotic fluid and membranes, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O418X31	Other specified disorders of amniotic fluid and membranes, third trimester, fetus 1	Diagnosis	ICD-10-CM
O418X32	Other specified disorders of amniotic fluid and membranes, third trimester, fetus 2	Diagnosis	ICD-10-CM
O418X33	Other specified disorders of amniotic fluid and membranes, third trimester, fetus 3	Diagnosis	ICD-10-CM
O418X34	Other specified disorders of amniotic fluid and membranes, third trimester, fetus 4	Diagnosis	ICD-10-CM
O418X35	Other specified disorders of amniotic fluid and membranes, third trimester, fetus 5	Diagnosis	ICD-10-CM
O418X39	Other specified disorders of amniotic fluid and membranes, third trimester, other fetus	Diagnosis	ICD-10-CM
O4191X0	Disorder of amniotic fluid and membranes, unspecified, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O4191X1	Disorder of amniotic fluid and membranes, unspecified, first trimester, fetus 1	Diagnosis	ICD-10-CM
O4191X2	Disorder of amniotic fluid and membranes, unspecified, first trimester, fetus 2	Diagnosis	ICD-10-CM
O4191X3	Disorder of amniotic fluid and membranes, unspecified, first trimester, fetus 3	Diagnosis	ICD-10-CM
O4191X4	Disorder of amniotic fluid and membranes, unspecified, first trimester, fetus 4	Diagnosis	ICD-10-CM
O4191X5	Disorder of amniotic fluid and membranes, unspecified, first trimester, fetus 5	Diagnosis	ICD-10-CM
O4191X9	Disorder of amniotic fluid and membranes, unspecified, first trimester, other fetus	Diagnosis	ICD-10-CM
O4192X0	Disorder of amniotic fluid and membranes, unspecified, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O4192X1	Disorder of amniotic fluid and membranes, unspecified, second trimester, fetus 1	Diagnosis	ICD-10-CM
O4192X2	Disorder of amniotic fluid and membranes, unspecified, second trimester, fetus 2	Diagnosis	ICD-10-CM
O4192X3	Disorder of amniotic fluid and membranes, unspecified, second trimester, fetus 3	Diagnosis	ICD-10-CM
O4192X4	Disorder of amniotic fluid and membranes, unspecified, second trimester, fetus 4	Diagnosis	ICD-10-CM
O4192X5	Disorder of amniotic fluid and membranes, unspecified, second trimester, fetus 5	Diagnosis	ICD-10-CM
O4192X9	Disorder of amniotic fluid and membranes, unspecified, second trimester, other fetus	Diagnosis	ICD-10-CM
O4193X0	Disorder of amniotic fluid and membranes, unspecified, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O4193X1	Disorder of amniotic fluid and membranes, unspecified, third trimester, fetus 1	Diagnosis	ICD-10-CM
O4193X2	Disorder of amniotic fluid and membranes, unspecified, third trimester, fetus 2	Diagnosis	ICD-10-CM
O4193X3	Disorder of amniotic fluid and membranes, unspecified, third trimester, fetus 3	Diagnosis	ICD-10-CM
O4193X4	Disorder of amniotic fluid and membranes, unspecified, third trimester, fetus 4	Diagnosis	ICD-10-CM
O4193X5	Disorder of amniotic fluid and membranes, unspecified, third trimester, fetus 5	Diagnosis	ICD-10-CM
O4193X9	Disorder of amniotic fluid and membranes, unspecified, third trimester, other fetus	Diagnosis	ICD-10-CM
O42011	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture, first trimester	Diagnosis	ICD-10-CM
O42012	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture, second trimester	Diagnosis	ICD-10-CM
O42013	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture, third trimester	Diagnosis	ICD-10-CM
O42019	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture, unspecified trimester	Diagnosis	ICD-10-CM
O4202	Full-term premature rupture of membranes, onset of labor within 24 hours of rupture	Diagnosis	ICD-10-CM
O42111	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture, first trimester	Diagnosis	ICD-10-CM
O42112	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture, second trimester	Diagnosis	ICD-10-CM
O42113	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture, third trimester	Diagnosis	ICD-10-CM
O42119	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture, unspecified trimester	Diagnosis	ICD-10-CM
O4212	Full-term premature rupture of membranes, onset of labor more than 24 hours following rupture	Diagnosis	ICD-10-CM
O42911	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor, first trimester	Diagnosis	ICD-10-CM
O42912	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor, second trimester	Diagnosis	ICD-10-CM
O42913	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor, third trimester	Diagnosis	ICD-10-CM
O42919	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor, unspecified trimester	Diagnosis	ICD-10-CM
O4292	Full-term premature rupture of membranes, unspecified as to length of time between rupture and onset of labor	Diagnosis	ICD-10-CM
O43011	Fetomaternal placental transfusion syndrome, first trimester	Diagnosis	ICD-10-CM
O43012	Fetomaternal placental transfusion syndrome, second trimester	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
043013	Fetomaternal placental transfusion syndrome, third trimester	Diagnosis	ICD-10-CM
043021	Fetus-to-fetus placental transfusion syndrome, first trimester	Diagnosis	ICD-10-CM
043022	Fetus-to-fetus placental transfusion syndrome, second trimester	Diagnosis	ICD-10-CM
043023	Fetus-to-fetus placental transfusion syndrome, third trimester	Diagnosis	ICD-10-CM
043101	Malformation of placenta, unspecified, first trimester	Diagnosis	ICD-10-CM
043102	Malformation of placenta, unspecified, second trimester	Diagnosis	ICD-10-CM
043103	Malformation of placenta, unspecified, third trimester	Diagnosis	ICD-10-CM
043111	Circumvallate placenta, first trimester	Diagnosis	ICD-10-CM
043112	Circumvallate placenta, second trimester	Diagnosis	ICD-10-CM
043113	Circumvallate placenta, third trimester	Diagnosis	ICD-10-CM
043121	Velamentous insertion of umbilical cord, first trimester	Diagnosis	ICD-10-CM
043122	Velamentous insertion of umbilical cord, second trimester	Diagnosis	ICD-10-CM
043123	Velamentous insertion of umbilical cord, third trimester	Diagnosis	ICD-10-CM
043191	Other malformation of placenta, first trimester	Diagnosis	ICD-10-CM
043192	Other malformation of placenta, second trimester	Diagnosis	ICD-10-CM
043193	Other malformation of placenta, third trimester	Diagnosis	ICD-10-CM
043211	Placenta accreta, first trimester	Diagnosis	ICD-10-CM
043212	Placenta accreta, second trimester	Diagnosis	ICD-10-CM
043213	Placenta accreta, third trimester	Diagnosis	ICD-10-CM
043221	Placenta increta, first trimester	Diagnosis	ICD-10-CM
043222	Placenta increta, second trimester	Diagnosis	ICD-10-CM
043223	Placenta increta, third trimester	Diagnosis	ICD-10-CM
043231	Placenta percreta, first trimester	Diagnosis	ICD-10-CM
043232	Placenta percreta, second trimester	Diagnosis	ICD-10-CM
043233	Placenta percreta, third trimester	Diagnosis	ICD-10-CM
043811	Placental infarction, first trimester	Diagnosis	ICD-10-CM
043812	Placental infarction, second trimester	Diagnosis	ICD-10-CM
043813	Placental infarction, third trimester	Diagnosis	ICD-10-CM
043891	Other placental disorders, first trimester	Diagnosis	ICD-10-CM
043892	Other placental disorders, second trimester	Diagnosis	ICD-10-CM
043893	Other placental disorders, third trimester	Diagnosis	ICD-10-CM
04391	Unspecified placental disorder, first trimester	Diagnosis	ICD-10-CM
04392	Unspecified placental disorder, second trimester	Diagnosis	ICD-10-CM
04393	Unspecified placental disorder, third trimester	Diagnosis	ICD-10-CM
04401	Complete placenta previa NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
04402	Complete placenta previa NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
04403	Complete placenta previa NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
04411	Complete placenta previa with hemorrhage, first trimester	Diagnosis	ICD-10-CM
04412	Complete placenta previa with hemorrhage, second trimester	Diagnosis	ICD-10-CM
04413	Complete placenta previa with hemorrhage, third trimester	Diagnosis	ICD-10-CM
04421	Partial placenta previa NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
04422	Partial placenta previa NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
04423	Partial placenta previa NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
04431	Partial placenta previa with hemorrhage, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O4432	Partial placenta previa with hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4433	Partial placenta previa with hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4441	Low lying placenta NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4442	Low lying placenta NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4443	Low lying placenta NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4451	Low lying placenta with hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4452	Low lying placenta with hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4453	Low lying placenta with hemorrhage, third trimester	Diagnosis	ICD-10-CM
O45001	Premature separation of placenta with coagulation defect, unspecified, first trimester	Diagnosis	ICD-10-CM
O45002	Premature separation of placenta with coagulation defect, unspecified, second trimester	Diagnosis	ICD-10-CM
O45003	Premature separation of placenta with coagulation defect, unspecified, third trimester	Diagnosis	ICD-10-CM
O45011	Premature separation of placenta with afibrinogenemia, first trimester	Diagnosis	ICD-10-CM
O45012	Premature separation of placenta with afibrinogenemia, second trimester	Diagnosis	ICD-10-CM
O45013	Premature separation of placenta with afibrinogenemia, third trimester	Diagnosis	ICD-10-CM
O45021	Premature separation of placenta with disseminated intravascular coagulation, first trimester	Diagnosis	ICD-10-CM
O45022	Premature separation of placenta with disseminated intravascular coagulation, second trimester	Diagnosis	ICD-10-CM
O45023	Premature separation of placenta with disseminated intravascular coagulation, third trimester	Diagnosis	ICD-10-CM
O45091	Premature separation of placenta with other coagulation defect, first trimester	Diagnosis	ICD-10-CM
O45092	Premature separation of placenta with other coagulation defect, second trimester	Diagnosis	ICD-10-CM
O45093	Premature separation of placenta with other coagulation defect, third trimester	Diagnosis	ICD-10-CM
O458X1	Other premature separation of placenta, first trimester	Diagnosis	ICD-10-CM
O458X2	Other premature separation of placenta, second trimester	Diagnosis	ICD-10-CM
O458X3	Other premature separation of placenta, third trimester	Diagnosis	ICD-10-CM
O4591	Premature separation of placenta, unspecified, first trimester	Diagnosis	ICD-10-CM
O4592	Premature separation of placenta, unspecified, second trimester	Diagnosis	ICD-10-CM
O4593	Premature separation of placenta, unspecified, third trimester	Diagnosis	ICD-10-CM
O46001	Antepartum hemorrhage with coagulation defect, unspecified, first trimester	Diagnosis	ICD-10-CM
O46002	Antepartum hemorrhage with coagulation defect, unspecified, second trimester	Diagnosis	ICD-10-CM
O46003	Antepartum hemorrhage with coagulation defect, unspecified, third trimester	Diagnosis	ICD-10-CM
O46011	Antepartum hemorrhage with afibrinogenemia, first trimester	Diagnosis	ICD-10-CM
O46012	Antepartum hemorrhage with afibrinogenemia, second trimester	Diagnosis	ICD-10-CM
O46013	Antepartum hemorrhage with afibrinogenemia, third trimester	Diagnosis	ICD-10-CM
O46021	Antepartum hemorrhage with disseminated intravascular coagulation, first trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O46022	Antepartum hemorrhage with disseminated intravascular coagulation, second trimester	Diagnosis	ICD-10-CM
O46023	Antepartum hemorrhage with disseminated intravascular coagulation, third trimester	Diagnosis	ICD-10-CM
O46091	Antepartum hemorrhage with other coagulation defect, first trimester	Diagnosis	ICD-10-CM
O46092	Antepartum hemorrhage with other coagulation defect, second trimester	Diagnosis	ICD-10-CM
O46093	Antepartum hemorrhage with other coagulation defect, third trimester	Diagnosis	ICD-10-CM
O468X1	Other antepartum hemorrhage, first trimester	Diagnosis	ICD-10-CM
O468X2	Other antepartum hemorrhage, second trimester	Diagnosis	ICD-10-CM
O468X3	Other antepartum hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4691	Antepartum hemorrhage, unspecified, first trimester	Diagnosis	ICD-10-CM
O4692	Antepartum hemorrhage, unspecified, second trimester	Diagnosis	ICD-10-CM
O4693	Antepartum hemorrhage, unspecified, third trimester	Diagnosis	ICD-10-CM
O4702	False labor before 37 completed weeks of gestation, second trimester	Diagnosis	ICD-10-CM
O4703	False labor before 37 completed weeks of gestation, third trimester	Diagnosis	ICD-10-CM
O471	False labor at or after 37 completed weeks of gestation	Diagnosis	ICD-10-CM
O480	Post-term pregnancy	Diagnosis	ICD-10-CM
O481	Prolonged pregnancy	Diagnosis	ICD-10-CM
O6002	Preterm labor without delivery, second trimester	Diagnosis	ICD-10-CM
O6003	Preterm labor without delivery, third trimester	Diagnosis	ICD-10-CM
O6010X0	Preterm labor with preterm delivery, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O7102	Rupture of uterus before onset of labor, second trimester	Diagnosis	ICD-10-CM
O7103	Rupture of uterus before onset of labor, third trimester	Diagnosis	ICD-10-CM
O7582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean	Diagnosis	ICD-10-CM
O88011	Air embolism in pregnancy, first trimester	Diagnosis	ICD-10-CM
O88012	Air embolism in pregnancy, second trimester	Diagnosis	ICD-10-CM
O88013	Air embolism in pregnancy, third trimester	Diagnosis	ICD-10-CM
O88111	Amniotic fluid embolism in pregnancy, first trimester	Diagnosis	ICD-10-CM
O88112	Amniotic fluid embolism in pregnancy, second trimester	Diagnosis	ICD-10-CM
O88113	Amniotic fluid embolism in pregnancy, third trimester	Diagnosis	ICD-10-CM
O88211	Thromboembolism in pregnancy, first trimester	Diagnosis	ICD-10-CM
O88212	Thromboembolism in pregnancy, second trimester	Diagnosis	ICD-10-CM
O88213	Thromboembolism in pregnancy, third trimester	Diagnosis	ICD-10-CM
O88311	Pyemic and septic embolism in pregnancy, first trimester	Diagnosis	ICD-10-CM
O88312	Pyemic and septic embolism in pregnancy, second trimester	Diagnosis	ICD-10-CM
O88313	Pyemic and septic embolism in pregnancy, third trimester	Diagnosis	ICD-10-CM
O88811	Other embolism in pregnancy, first trimester	Diagnosis	ICD-10-CM
O88812	Other embolism in pregnancy, second trimester	Diagnosis	ICD-10-CM
O88813	Other embolism in pregnancy, third trimester	Diagnosis	ICD-10-CM
O91011	Infection of nipple associated with pregnancy, first trimester	Diagnosis	ICD-10-CM
O91012	Infection of nipple associated with pregnancy, second trimester	Diagnosis	ICD-10-CM
O91013	Infection of nipple associated with pregnancy, third trimester	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
091111	Abscess of breast associated with pregnancy, first trimester	Diagnosis	ICD-10-CM
091112	Abscess of breast associated with pregnancy, second trimester	Diagnosis	ICD-10-CM
091113	Abscess of breast associated with pregnancy, third trimester	Diagnosis	ICD-10-CM
091211	Nonpurulent mastitis associated with pregnancy, first trimester	Diagnosis	ICD-10-CM
091212	Nonpurulent mastitis associated with pregnancy, second trimester	Diagnosis	ICD-10-CM
091213	Nonpurulent mastitis associated with pregnancy, third trimester	Diagnosis	ICD-10-CM
092011	Retracted nipple associated with pregnancy, first trimester	Diagnosis	ICD-10-CM
092012	Retracted nipple associated with pregnancy, second trimester	Diagnosis	ICD-10-CM
092013	Retracted nipple associated with pregnancy, third trimester	Diagnosis	ICD-10-CM
092111	Cracked nipple associated with pregnancy, first trimester	Diagnosis	ICD-10-CM
092112	Cracked nipple associated with pregnancy, second trimester	Diagnosis	ICD-10-CM
092113	Cracked nipple associated with pregnancy, third trimester	Diagnosis	ICD-10-CM
098011	Tuberculosis complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098012	Tuberculosis complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098013	Tuberculosis complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098111	Syphilis complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098112	Syphilis complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098113	Syphilis complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098211	Gonorrhea complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098212	Gonorrhea complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098213	Gonorrhea complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098311	Other infections with a predominantly sexual mode of transmission complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098312	Other infections with a predominantly sexual mode of transmission complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098313	Other infections with a predominantly sexual mode of transmission complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098411	Viral hepatitis complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098412	Viral hepatitis complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098413	Viral hepatitis complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098511	Other viral diseases complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098512	Other viral diseases complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098513	Other viral diseases complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098611	Protozoal diseases complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098612	Protozoal diseases complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098613	Protozoal diseases complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098711	Human immunodeficiency virus [HIV] disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098712	Human immunodeficiency virus [HIV] disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098713	Human immunodeficiency virus [HIV] disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098811	Other maternal infectious and parasitic diseases complicating pregnancy, first trimester	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
098812	Other maternal infectious and parasitic diseases complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098813	Other maternal infectious and parasitic diseases complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
098911	Unspecified maternal infectious and parasitic disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
098912	Unspecified maternal infectious and parasitic disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
098913	Unspecified maternal infectious and parasitic disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099011	Anemia complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099012	Anemia complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099013	Anemia complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099111	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099112	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099113	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099211	Obesity complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099212	Obesity complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099213	Obesity complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099281	Endocrine, nutritional and metabolic diseases complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099282	Endocrine, nutritional and metabolic diseases complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099283	Endocrine, nutritional and metabolic diseases complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099311	Alcohol use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099312	Alcohol use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099313	Alcohol use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099321	Drug use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099322	Drug use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099323	Drug use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099341	Other mental disorders complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099342	Other mental disorders complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099343	Other mental disorders complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099351	Diseases of the nervous system complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
099352	Diseases of the nervous system complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
099353	Diseases of the nervous system complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
099411	Diseases of the circulatory system complicating pregnancy, first trimester	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
O99412	Diseases of the circulatory system complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99413	Diseases of the circulatory system complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99511	Diseases of the respiratory system complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99512	Diseases of the respiratory system complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99513	Diseases of the respiratory system complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99611	Diseases of the digestive system complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99612	Diseases of the digestive system complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99613	Diseases of the digestive system complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99711	Diseases of the skin and subcutaneous tissue complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99712	Diseases of the skin and subcutaneous tissue complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99713	Diseases of the skin and subcutaneous tissue complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99841	Bariatric surgery status complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99842	Bariatric surgery status complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99843	Bariatric surgery status complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A111	Malignant neoplasm complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A112	Malignant neoplasm complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A113	Malignant neoplasm complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A211	Injury, poisoning and certain other consequences of external causes complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A212	Injury, poisoning and certain other consequences of external causes complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A213	Injury, poisoning and certain other consequences of external causes complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A311	Physical abuse complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A312	Physical abuse complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A313	Physical abuse complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A411	Sexual abuse complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A412	Sexual abuse complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A413	Sexual abuse complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A511	Psychological abuse complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A512	Psychological abuse complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A513	Psychological abuse complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
S4011	IN VITRO FERTILIZATION;	Procedure	HCPCS
S4013	COMPLETE CYCLE GIFT CASE RATE	Procedure	HCPCS
S4014	COMPLETE CYCLE ZIFT CASE RATE	Procedure	HCPCS
S4015	COMPLETE IVF CYCLE CASE RATE NOS	Procedure	HCPCS
S4016	FROZEN IVF CYCLE CASE RATE	Procedure	HCPCS
S4035	STIMULATED INTRAUTERINE INSEMINATION (IUI), CASE RATE	Procedure	HCPCS
S4037	Cryopreserved embryo transfer, case rate	Procedure	HCPCS
Z3401	Encounter for supervision of normal first pregnancy, first trimester	Diagnosis	ICD-10-CM
Z3402	Encounter for supervision of normal first pregnancy, second trimester	Diagnosis	ICD-10-CM
Z3403	Encounter for supervision of normal first pregnancy, third trimester	Diagnosis	ICD-10-CM
Z3481	Encounter for supervision of other normal pregnancy, first trimester	Diagnosis	ICD-10-CM
Z3482	Encounter for supervision of other normal pregnancy, second trimester	Diagnosis	ICD-10-CM
Z3483	Encounter for supervision of other normal pregnancy, third trimester	Diagnosis	ICD-10-CM
Z3491	Encounter for supervision of normal pregnancy, unspecified, first trimester	Diagnosis	ICD-10-CM
Z3492	Encounter for supervision of normal pregnancy, unspecified, second trimester	Diagnosis	ICD-10-CM
Z3493	Encounter for supervision of normal pregnancy, unspecified, third trimester	Diagnosis	ICD-10-CM
Z3A01	Less than 8 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A08	8 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A09	9 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A10	10 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A11	11 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A12	12 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A13	13 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A14	14 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A15	15 weeks gestation of pregnancy	Diagnosis	ICD-10-CM

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

Code	Description	Code	
		Category	Code Type
Z3A16	16 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A17	17 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A18	18 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A19	19 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A20	20 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A21	21 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A22	22 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A23	23 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A24	24 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A25	25 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A26	26 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A27	27 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A28	28 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A29	29 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A30	30 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A31	31 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A32	32 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A33	33 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A34	34 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A35	35 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A36	36 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A37	37 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A38	38 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A39	39 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A40	40 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A41	41 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A42	42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM
Z3A49	Greater than 42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
Atopic Dermatitis			
L20	Atopic dermatitis	Diagnosis	ICD-10-CM
L20.0	Besnier's prurigo	Diagnosis	ICD-10-CM
L20.8	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.81	Atopic neurodermatitis	Diagnosis	ICD-10-CM
L20.82	Flexural eczema	Diagnosis	ICD-10-CM
L20.83	Infantile (acute) (chronic) eczema	Diagnosis	ICD-10-CM
L20.84	Intrinsic (allergic) eczema	Diagnosis	ICD-10-CM
L20.89	Other atopic dermatitis	Diagnosis	ICD-10-CM
L20.9	Atopic dermatitis, unspecified	Diagnosis	ICD-10-CM
Asthma			
J45	Asthma	Diagnosis	ICD-10-CM
J45.2	Mild intermittent asthma	Diagnosis	ICD-10-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.3	Mild persistent asthma	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.4	Moderate persistent asthma	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.5	Severe persistent asthma	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.9	Other and unspecified asthma	Diagnosis	ICD-10-CM
J45.90	Unspecified asthma	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.99	Other asthma	Diagnosis	ICD-10-CM
Chronic Rhinosinusitis			
J31	Chronic rhinitis, nasopharyngitis and pharyngitis	Diagnosis	ICD-10-CM
J31.0	Chronic rhinitis	Diagnosis	ICD-10-CM
J31.1	Chronic nasopharyngitis	Diagnosis	ICD-10-CM
J31.2	Chronic pharyngitis	Diagnosis	ICD-10-CM
J32	Chronic sinusitis	Diagnosis	ICD-10-CM
J32.0	Chronic maxillary sinusitis	Diagnosis	ICD-10-CM
J32.1	Chronic frontal sinusitis	Diagnosis	ICD-10-CM
J32.2	Chronic ethmoidal sinusitis	Diagnosis	ICD-10-CM
J32.3	Chronic sphenoidal sinusitis	Diagnosis	ICD-10-CM
J32.4	Chronic pansinusitis	Diagnosis	ICD-10-CM
J32.8	Other chronic sinusitis	Diagnosis	ICD-10-CM
J32.9	Chronic sinusitis, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
J33	Nasal polyp	Diagnosis	ICD-10-CM
J33.0	Polyp of nasal cavity	Diagnosis	ICD-10-CM
J33.1	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
J45.998	Other asthma	Diagnosis	ICD-10-CM
Eosinophilic Esophagitis			
K20	Esophagitis	Diagnosis	ICD-10-CM
K20.0	Eosinophilic esophagitis	Diagnosis	ICD-10-CM
K20.8	Other esophagitis	Diagnosis	ICD-10-CM
K20.80	Other esophagitis without bleeding	Diagnosis	ICD-10-CM
K20.81	Other esophagitis with bleeding	Diagnosis	ICD-10-CM
K20.9	Esophagitis, unspecified	Diagnosis	ICD-10-CM
K29.0	Acute gastritis	Diagnosis	ICD-10-CM
K29.00	Acute gastritis without bleeding	Diagnosis	ICD-10-CM
K29.01	Acute gastritis with bleeding	Diagnosis	ICD-10-CM
K29.3	Chronic superficial gastritis	Diagnosis	ICD-10-CM
K29.30	Chronic superficial gastritis without bleeding	Diagnosis	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	Diagnosis	ICD-10-CM
K29.4	Chronic atrophic gastritis	Diagnosis	ICD-10-CM
K29.40	Chronic atrophic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	Diagnosis	ICD-10-CM
K29.5	Unspecified chronic gastritis	Diagnosis	ICD-10-CM
K29.50	Unspecified chronic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.51	Unspecified chronic gastritis with bleeding	Diagnosis	ICD-10-CM
K29.6	Other gastritis	Diagnosis	ICD-10-CM
K29.60	Other gastritis without bleeding	Diagnosis	ICD-10-CM
K29.61	Other gastritis with bleeding	Diagnosis	ICD-10-CM
K29.7	Gastritis, unspecified	Diagnosis	ICD-10-CM
K29.70	Gastritis, unspecified, without bleeding	Diagnosis	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	Diagnosis	ICD-10-CM
K52.2	Allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.8	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.81	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K52.89	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.9	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
Prurigo Nodularis			
L28.1	Prurigo nodularis	Diagnosis	ICD-10-CM

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
Topical Glucocorticoids	
HYDROCORTISONE	First-Hydrocortisone
alclometasone dipropionate	alclometasone
amcinonide	amcinonide
benzoyl peroxide/hydrocortisone	Vanoxide-HC
betamethasone dipropionate	Sernivo
betamethasone dipropionate	betamethasone dipropionate
betamethasone dipropionate	betamethasone, augmented
betamethasone dipropionate/propylene glycol	Diprolene (augmented)
betamethasone dipropionate/propylene glycol	Diprolene AF
betamethasone dipropionate/propylene glycol	betamethasone, augmented
betamethasone valerate	Luxiq
betamethasone valerate	betamethasone valerate
clobetasol propionate	Clobex
clobetasol propionate	Clodan
clobetasol propionate	Cormax
clobetasol propionate	Impeklo
clobetasol propionate	Impoyz
clobetasol propionate	Olux
clobetasol propionate	Temovate
clobetasol propionate	clobetasol
clobetasol propionate/emollient base	Olux-E
clobetasol propionate/emollient base	Tovet Emollient
clobetasol propionate/emollient base	clobetasol-emollient
clobetasol propionate/emollient combination no.65	Tovet Kit
clobetasol propionate/gauze bandage/silicone, adhesive	Tasoprol
clobetasol propionate/hydrocolloid dressing	Clobetavix
clobetasol propionate/niacinamide	Chlooxia
clobetasol propionate/niacinamide	Oxiachlo
clobetasol propionate/niacinamide	clobetasol-niacinamide
clobetasol propionate/skin cleanser combination no.28	Clodan Kit
clocortolone pivalate	Cloderm
clocortolone pivalate	clocortolone pivalate
desonide	DesOwen
desonide	DesRx
desonide	Desonate
desonide	Tridesilon
desonide	Verdeso
desonide	desonide
desoximetasone	Topicort
desoximetasone	desoximetasone
desoximetasone/niacinamide	Fluoxia
desoximetasone/niacinamide	desoximetasone-niacinamide
diflorasone diacetate	Psorcon
diflorasone diacetate	diflorasone
diflorasone diacetate/emollient base	ApexiCon E
fluocinolone acetonide	Capex
fluocinolone acetonide	Derma-Smoothe/FS Body Oil

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
fluocinolone acetonide	Synalar
fluocinolone acetonide	fluocinolone
fluocinolone acetonide/emollient combination no.65	Synalar Cream Kit
fluocinolone acetonide/emollient combination no.65	Synalar Ointment Kit
fluocinolone acetonide/niacinamide	Tetoxia
fluocinolone acetonide/niacinamide	fluocinolone-niacinamide
fluocinolone acetonide/shower cap	Derma-Smoothe/FS Scalp Oil
fluocinolone acetonide/shower cap	fluocinolone and shower cap
fluocinolone acetonide/skin cleanser comb no.28	Synalar TS
fluocinolone acetonide/skin cleanser no.10/silicone, tape	Xilapak
fluocinolone acetonide/urea/silicone, adhesive	Noxipak
fluocinonide	Vanos
fluocinonide	fluocinonide
fluocinonide/dimethicone	Fluopar
fluocinonide/emollient base	Fluocinonide-E
fluocinonide/emollient base	fluocinonide-emollient
fluocinonide/silicone, adhesive	Fluovix
fluocinonide/silicone, adhesive	Fluovix Plus
flurandrenolide	Cordran
flurandrenolide	Cordran Tape Large Roll
flurandrenolide	Cordran Tape Small Roll
flurandrenolide	Nolix
flurandrenolide	flurandrenolide
fluticasone propionate	Beser
fluticasone propionate	Cutivate
fluticasone propionate	fluticasone propionate
fluticasone propionate/emollient combination no.65	Beser Kit
halcinonide	Halog
halcinonide	halcinonide
halobetasol propionate	Bryhali
halobetasol propionate	Lexette
halobetasol propionate	Ultravate
halobetasol propionate	halobetasol propionate
halobetasol propionate/lactic acid	Ultravate X
hydrocortisone	Advanced Allergy Collect Kit
hydrocortisone	Ala-Cort
hydrocortisone	Ala-Scalp
hydrocortisone	Anusol-HC
hydrocortisone	Procto-Med HC
hydrocortisone	Procto-Pak
hydrocortisone	Proctocort
hydrocortisone	Proctosol HC
hydrocortisone	Proctozone-HC
hydrocortisone	Scalacort
hydrocortisone	Texacort
hydrocortisone	hydrocortisone
hydrocortisone acetate	MiCort-HC
hydrocortisone acetate/aloe vera	Nucort

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
hydrocortisone acetate/iodoquinol/aloe polysaccharides no.2	Alcortin A
hydrocortisone acetate/iodoquinol/aloe polysaccharides no.2	hydrocortisone-iodoquinol-aloe2
hydrocortisone acetate/iodoquinol/aloe vera	Vytone
hydrocortisone acetate/iodoquinol/aloe vera	hydrocortisone-iodoquinol-aloe
hydrocortisone acetate/pramoxine HCl	Analpram-HC
hydrocortisone acetate/pramoxine HCl	Epifoam
hydrocortisone acetate/pramoxine HCl	Mezparox-HC
hydrocortisone acetate/pramoxine HCl	Novacort
hydrocortisone acetate/pramoxine HCl	Pramosone
hydrocortisone acetate/pramoxine HCl	hydrocortisone-pramoxine
hydrocortisone acetate/pramoxine HCl/emollient base	Pramosone E
hydrocortisone acetate/urea	U-Cort
hydrocortisone butyrate	Locoid
hydrocortisone butyrate	hydrocortisone butyrate
hydrocortisone butyrate/emollient base	Locoid Lipocream
hydrocortisone butyrate/emollient base	hydrocortisone butyr-emollient
hydrocortisone probutate	Pandel
hydrocortisone valerate	hydrocortisone valerate
hydrocortisone/emollient combination no.45	Pediaderm HC
hydrocortisone/iodoquinol	Corti-Sav
hydrocortisone/iodoquinol	Dermazene
hydrocortisone/iodoquinol	hydrocortisone-iodoquinol
hydrocortisone/mineral oil/petrolatum,white	hydrocortisone-min oil-wht pet
hydrocortisone/pramoxine HCl/chloroxylenol	Cortane-B
hydrocortisone/salicylic acid/sulfur/shampoo no. 1	Scalacort DK
hydrocortisone/skin cleanser combination no.25	Aqua Glycolic HC
hydrocortisone/skin cleanser combination no.35	Dermasorb HC Complete Kit
lidocaine HCl/hydrocortisone acetate	Lidocort
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
mometasone furoate	Elocon
mometasone furoate	mometasone
mometasone furoate/ammonium lactate	Quinosone
mometasone furoate/dimethicone	Quinixil
prednicarbate	Dermatop
prednicarbate	prednicarbate
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Trianex
triamcinolone acetonide	Triderm
triamcinolone acetonide	Tritocin
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide/dimethicone	Ellzia Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaWerx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	DermacinRx SilaPak
triamcinolone acetonide/dimethicone/silicone, adhesive	NuTriaRx
triamcinolone acetonide/dimethicone/silicone, adhesive	SanaDermRx
triamcinolone acetonide/dimethicone/silicone, adhesive	Sure Result Tac Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	Tri-Sila
triamcinolone acetonide/dimethicone/silicone, adhesive	TriHeal-80

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
triamcinolone acetonide/dimethicone/silicone, adhesive	TriaDime
triamcinolone acetonide/dimethicone/silicone, adhesive	TriaDime-80
triamcinolone acetonide/dimethicone/silicone, adhesive	Trivix
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm TDPak
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm Trilasil Pak
triamcinolone acetonide/emollient combination no.45	Pediaderm TA
triamcinolone acetonide/emollient combination no.86	Dermasorb TA Complete Kit
triamcinolone acetonide/gauze bandage/silicone, adhesive	Sila III
triamcinolone acetonide/gauze bandage/silicone, adhesive	Triasil
triamcinolone acetonide/niacinamide	triamcinolone-niacinamide
triamcinolone acetonide/silicones	DermacinRx SilaZone
triamcinolone acetonide/silicones	Dermazone
triamcinolone acetonide/silicones	SilaLite Pak
triamcinolone acetonide/silicones	Silazone-II
Topical Calcineurin Inhibitors	
pimecrolimus	Elidel
pimecrolimus	pimecrolimus
tacrolimus	Nuju
tacrolimus	Protopic
tacrolimus	tacrolimus
tacrolimus in vehicle base no.238	Nuju
tacrolimus in vehicle base no.238	tacrolimus-vehicle base no.238
tacrolimus/hyaluronate sodium/niacinamide	Oxianujo (with hyaluronate)
tacrolimus/hyaluronate sodium/niacinamide	tacrolimus-hyaluronate-niacin
tacrolimus/niacinamide	Oxianuji
tacrolimus/niacinamide	Oxianujo
tacrolimus/niacinamide	tacrolimus-niacinamide
Other Topical Prescription Therapies	
ruxolitinib phosphate	Opzelura
Systemic Therapies for Atopic Dermatitis	
abrocitinib	Cibinqo
azathioprine	Azasan
azathioprine	Imuran
azathioprine	azathioprine
azathioprine sodium	azathioprine sodium
cyclosporine	Sandimmune
cyclosporine	cyclosporine
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
cyclosporine, modified	cyclosporine modified
methotrexate	Xatmep
methotrexate sodium	Rheumatrex
methotrexate sodium	Trexall
methotrexate sodium	methotrexate sodium
methotrexate sodium/PF	methotrexate sodium (PF)
methotrexate/PF	Otrexup (PF)
methotrexate/PF	Rasuvo (PF)
methotrexate/PF	RediTrex (PF)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
mycophenolate mofetil	CellCept
mycophenolate mofetil	mycophenolate mofetil
mycophenolate mofetil HCl	CellCept Intravenous
mycophenolate mofetil HCl	mycophenolate mofetil (HCl)
ruxolitinib phosphate	Jakafi
tralokinumab-ldrm	Adbry
upadacitinib	Rinvoq
Asthma Biologics	
benralizumab	Fasenra
benralizumab	Fasenra Pen
mepolizumab	Nucala
omalizumab	Xolair
reslizumab	Cinqair
tezepelumab-ekko	Tezspire
Oral Azithromycin	
azithromycin	Zithromax
azithromycin	Zithromax TRI-PAK
azithromycin	Zithromax Z-Pak
azithromycin	Zmax
azithromycin	azithromycin
Exacerbation Asthma Inhalers (SABA or SAMA)	
albuterol sulfate	ProAir HFA
albuterol sulfate	ProAir RespiClick
albuterol sulfate	Proair Digihaler
albuterol sulfate	Proventil HFA
albuterol sulfate	Ventolin HFA
albuterol sulfate	albuterol sulfate
ipratropium bromide	Atrovent HFA
ipratropium bromide	ipratropium bromide
levalbuterol HCl	Xopenex
levalbuterol HCl	Xopenex Concentrate
levalbuterol HCl	levalbuterol HCl
levalbuterol tartrate	Xopenex HFA
levalbuterol tartrate	levalbuterol tartrate
Oral Glucocorticoids	
cortisone acetate	cortisone
dexamethasone	Decadron
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dexabliss
dexamethasone	Dexamethasone Intensol
dexamethasone	Dxevo
dexamethasone	Hemady
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	TaperDex
dexamethasone	ZCort

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
dexamethasone	ZoDex
dexamethasone	ZonaCort
dexamethasone	dexamethasone
hydrocortisone	Alkindi Sprinkle
hydrocortisone	Cortef
hydrocortisone	hydrocortisone
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone	prednisolone
prednisolone acetate	Flo-Pred
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	Veripred 20
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisone	Deltasone
prednisone	Prednisone Intensol
prednisone	Rayos
prednisone	prednisone
Zileuton	
zileuton	Zyflo
zileuton	Zyflo CR
zileuton	zileuton
Montelukast	
montelukast sodium	Singulair
montelukast sodium	montelukast
Maintenance Asthma Inhalers (Inhaled Corticosteroids (ICS) or Long Acting Beta Agonists (LABA) or Long Acting Muscarinic Antagonists (LAMA))	
beclomethasone dipropionate	Qvar
beclomethasone dipropionate	Qvar RediHaler
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	budesonide
budesonide/formoterol fumarate	Symbicort
budesonide/formoterol fumarate	budesonide-formoterol
ciclesonide	Alvesco
flunisolide	Aerospan
fluticasone furoate	Arnuity Ellipta
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone furoate/vilanterol trifenate	fluticasone furoate-vilanterol
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	ArmonAir RespiClick
fluticasone propionate	Flovent Diskus

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
fluticasone propionate	Flovent HFA
fluticasone propionate	fluticasone propionate
fluticasone propionate/salmeterol xinafoate	Advair Diskus
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
formoterol fumarate	Foradil Aerolizer
formoterol fumarate	Perforomist
formoterol fumarate	formoterol fumarate
ipratropium bromide/albuterol sulfate	Combivent Respimat
ipratropium bromide/albuterol sulfate	ipratropium-albuterol
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate/formoterol fumarate	Dulera
salmeterol xinafoate	Serevent Diskus
tiotropium bromide	Spiriva Respimat
tiotropium bromide	Spiriva with HandiHaler
Proton Pump Inhibitors	
LANSOPRAZOLE	FIRST-Lansoprazole
OMEPRAZOLE	FIRST-Omeprazole
OMEPRAZOLE	Omeprazole+SyrSpend SF Alka
dexlansoprazole	Dexilant
dexlansoprazole	dexlansoprazole
esomeprazole magnesium	Heartburn Treatment
esomeprazole magnesium	Nexium
esomeprazole magnesium	Nexium 24HR
esomeprazole magnesium	Nexium Packet
esomeprazole magnesium	esomeprazole magnesium
esomeprazole sodium	Nexium IV
esomeprazole sodium	esomeprazole sodium
esomeprazole strontium	esomeprazole strontium
lansoprazole	Heartburn Treatment 24 Hour
lansoprazole	Prevacid
lansoprazole	Prevacid 24Hr
lansoprazole	Prevacid SoluTab
lansoprazole	lansoprazole
lansoprazole	lansoprazole (bulk)
naproxen/esomeprazole magnesium	Vimovo
naproxen/esomeprazole magnesium	naproxen-esomeprazole
omeprazole	omeprazole
omeprazole	omeprazole (bulk)
omeprazole magnesium	Acid Reducer (omeprazole)
omeprazole magnesium	Prilosec
omeprazole magnesium	Prilosec OTC
omeprazole magnesium	omeprazole magnesium
omeprazole/sodium bicarbonate	Konvomep

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
omeprazole/sodium bicarbonate	OmePPI
omeprazole/sodium bicarbonate	Zegerid
omeprazole/sodium bicarbonate	Zegerid OTC
omeprazole/sodium bicarbonate	omeprazole-sodium bicarbonate
pantoprazole sodium	Protonix
pantoprazole sodium	pantoprazole
rabeprazole sodium	AcipHex
rabeprazole sodium	AcipHex Sprinkle
rabeprazole sodium	rabeprazole
IL-5 mAbs	
benralizumab	Fasenra
benralizumab	Fasenra Pen
mepolizumab	Nucala
reslizumab	Cinqair
Purine Analogues	
azathioprine	Azasan
azathioprine	Imuran
azathioprine	azathioprine
azathioprine sodium	azathioprine sodium
IL-13 mAbs	
tralokinumab-ldrm	Adbry
Systemic Non-Oral or Injectable Glucocorticoids	
betamethasone acetate and sodium phos in sterile water/PF	betameth ac,sod phos(PF)-water
betamethasone acetate/betamethasone sodium phosphate	BSP-0820
betamethasone acetate/betamethasone sodium phosphate	Beta-1
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
betamethasone acetate/betamethasone sodium phosphate	Pod-Care 100C
betamethasone acetate/betamethasone sodium phosphate	ReadySharp Betamethasone
betamethasone acetate/betamethasone sodium phosphate	betamethasone acet,sod phos
betamethasone acetate/betamethasone sodium phosphate/water	betamethasone ace,sod phos-wtr
betamethasone sodium phosph in sterile water for injection	betamethasone sod phosph-water
dexamethasone acetate and sodium phosphate in sterile water	dexamethasone ac, sod ph-water
dexamethasone acetate in sodium chloride, iso-osmotic	dexamethasone ace-NaCl,iso-osm
dexamethasone sodium phosphate	ReadySharp dexamethasone
dexamethasone sodium phosphate	dexamethasone sodium phosphate
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone sodium phosphate/PF	Active Injection Kit D (PF)
dexamethasone sodium phosphate/PF	DoubleDex (PF)
dexamethasone sodium phosphate/PF	MAS Care-Pak (PF)
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
hydrocortisone sodium succinate	A-Hydrocort
hydrocortisone sodium succinate	Solu-Cortef
hydrocortisone sodium succinate/PF	Solu-Cortef Act-O-Vial (PF)
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
methylprednisolone acetate	ReadySharp Methylprednisolone
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate in sodium chloride,iso-osmotic/PF	methylpred ac(PF)-NaCl,iso-osm
methylprednisolone acetate in sterile water for injection	methylprednisolone acet-water
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
triamcinolone acetonide	Arze-Ject-A
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Kenalog-80
triamcinolone acetonide	P-Care K40
triamcinolone acetonide	P-Care K80
triamcinolone acetonide	Pod-Care 100K
triamcinolone acetonide	Pro-C-Dure 5
triamcinolone acetonide	Pro-C-Dure 6
triamcinolone acetonide	ReadySharp Triamcinolone
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide in 0.9 % sodium chloride	triamcinolone aceton-0.9% NaCl
triamcinolone acetonide/0.9% sodium chloride/PF	triamcinol ac (PF) in 0.9%NaCl
triamcinolone diacetate in 0.9 % sodium chloride	triamcinolone diacet-0.9% NaCl
triamcinolone diacetate in 0.9 % sodium chloride/PF	triamcinolone dia(PF)-0.9%NaCl
triamcinolone hexacetonide	Aristospan Intra-Articular
triamcinolone hexacetonide	Aristospan Intralesional
triamcinolone hexacetonide	Hexatrione
Topical Capsaicin	
capsaicin/skin cleanser	Qutenza
diclofenac sodium/capsaicin	CapsFenac Pak
diclofenac sodium/capsaicin	Dicloheal-60
diclofenac sodium/capsaicin	Diclopak
diclofenac sodium/capsaicin	NuDiclo SoluPAK
diclofenac sodium/capsaicin	Pennsaicin
diclofenac sodium/capsaicin	Ziclocin
lidocaine HCl/benzocaine/methyl salicylate/capsaicin	Adazin
Topical Vitamin D Analogues	
calcipotriene	Calcitrene
calcipotriene	Dovonex
calcipotriene	Sorilux
calcipotriene	calcipotriene
calcipotriene/betamethasone dipropionate	Enstilar
calcipotriene/betamethasone dipropionate	Taclonex
calcipotriene/betamethasone dipropionate	Wynzora
calcipotriene/betamethasone dipropionate	calcipotriene-betamethasone
calcipotriene/dimethicone	NuDermRxPAK
calcipotriene/niacinamide	Diooxia
calcipotriene/transparent dressing	Trionex
Systemic Therapies for Prurigo Nodularis	
GABAPENTIN	Fanatrex
aprepitant	Aponvie

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
aprepitant	Cinvanti
aprepitant	Emend
aprepitant	aprepitant
cetirizine HCl	24Hour Allergy
cetirizine HCl	All Day Allergy (cetirizine)
cetirizine HCl	All Day Allergy Relief(cetir)
cetirizine HCl	Aller-Tec
cetirizine HCl	Allergy Relief (cetirizine)
cetirizine HCl	Child Allergy Relf(cetirizine)
cetirizine HCl	Child's All Day Allergy(cetir)
cetirizine HCl	Children's Aller-Tec
cetirizine HCl	Children's Allergy Complete
cetirizine HCl	Children's Allergy(cetirizine)
cetirizine HCl	Children's Cetirizine
cetirizine HCl	Children's Wal-Zyr
cetirizine HCl	Children's Zyrtec Allergy
cetirizine HCl	Quzyttir
cetirizine HCl	Wal-Zyr (cetirizine)
cetirizine HCl	Zyrtec
cetirizine HCl	cetirizine
cyclosporine	Sandimmune
cyclosporine	cyclosporine
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
cyclosporine, modified	cyclosporine modified
desloratadine	Clarinex
desloratadine	desloratadine
fexofenadine HCl	Allegra Allergy
fexofenadine HCl	Allegra Hives
fexofenadine HCl	Aller-Ease
fexofenadine HCl	Aller-Fex
fexofenadine HCl	Aller-ease
fexofenadine HCl	Allergy Relief (fexofenadine)
fexofenadine HCl	Children's Allegra Allergy
fexofenadine HCl	Children's Allergy Relief(fex)
fexofenadine HCl	Children's Wal-Fex
fexofenadine HCl	Wal-Fex Allergy
fexofenadine HCl	fexofenadine
fexofenadine HCl/pseudoephedrine HCl	24HR Allergy-Congestion Relief
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 24 Hour
fexofenadine HCl/pseudoephedrine HCl	Allergy Relief-D(fexofenadine)
fexofenadine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D(fexo)
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 24 Hour
fexofenadine HCl/pseudoephedrine HCl	fexofenadine-pseudoephedrine
gabapentin	Gralise
gabapentin	Gralise 30-Day Starter Pack

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
gabapentin	Neuraptine
gabapentin	Neurontin
gabapentin	gabapentin
gabapentin enacarbil	Horizant
lenalidomide	Revlimid
lenalidomide	lenalidomide
levocetirizine dihydrochloride	24HR Allergy Relief
levocetirizine dihydrochloride	Allergy Relief (levocetirizin)
levocetirizine dihydrochloride	Xyzal
levocetirizine dihydrochloride	levocetirizine
loratadine	Alavert
loratadine	Allerclear
loratadine	Allergy Relief (loratadine)
loratadine	Children's Allergy Relief(lor)
loratadine	Children's Claritin
loratadine	Children's Loratadine
loratadine	Claritin
loratadine	Claritin Liqui-Gel
loratadine	Claritin RediTabs
loratadine	Loradamed
loratadine	Non-Drowsy Allergy
loratadine	Vicks QlearQuil Allergy
loratadine	Wal-itin
loratadine	loratadine
methotrexate	Xatmep
methotrexate sodium	Rheumatrex
methotrexate sodium	Trexall
methotrexate sodium	methotrexate sodium
methotrexate sodium/PF	methotrexate sodium (PF)
methotrexate/PF	Otrexup (PF)
methotrexate/PF	Rasuvo (PF)
methotrexate/PF	RediTrex (PF)
montelukast sodium	Singulair
montelukast sodium	montelukast
naltrexone HCl	Naltrex
naltrexone HCl	naltrexone
naltrexone microspheres	Vivitrol
pregabalin	Lyrica
pregabalin	Lyrica CR
pregabalin	pregabalin
thalidomide	Thalomid
Local Nasal Glucocorticoids	
beclomethasone dipropionate	Beconase AQ
beclomethasone dipropionate	QNASL
budesonide	Rhinocort Allergy
budesonide	Rhinocort Aqua
budesonide	budesonide
ciclesonide	Omnaris

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Concomitant Medications in this Request

Generic Name	Brand Name
ciclesonide	Zetonna
flunisolide	flunisolide
fluticasone furoate	Children's Flonase Sensimist
fluticasone furoate	Flonase Sensimist
fluticasone furoate	Veramyst
fluticasone propionate	24 Hour Allergy Relief
fluticasone propionate	Aller-Flo
fluticasone propionate	Allergy Relief (fluticasone)
fluticasone propionate	Children's Flonase Allergy Rlf
fluticasone propionate	Childrens 24 Hr Allergy Relief
fluticasone propionate	ClariSpray
fluticasone propionate	Flonase Allergy Relief
fluticasone propionate	Xhance
fluticasone propionate	fluticasone propionate
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticanase
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticaspray
mometasone furoate	Nasonex
mometasone furoate	Nasonex 24hr Allergy
mometasone furoate	Sinuva
mometasone furoate	mometasone
triamcinolone acetonide	24 Hour Nasal Allergy
triamcinolone acetonide	Aller-Cort
triamcinolone acetonide	Children's Nasacort
triamcinolone acetonide	Nasacort
triamcinolone acetonide	Nasacort Allergy
triamcinolone acetonide	Nasal Allergy
triamcinolone acetonide	triamcinolone acetonide

Appendix F. List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Concomitant Medications in this Request

Code	Description	Code Category	Code Type
Systemic Therapies for Atopic Dermatitis			
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7517	Mycophenolate mofetil, oral, 250 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
Asthma Biologics			
J0517	Injection, benralizumab, 1 mg	Procedure	HCPCS
J2182	Injection, mepolizumab, 1 mg	Procedure	HCPCS
J2356	Injection, tezepelumab-ekko, 1 mg	Procedure	HCPCS
J2357	Injection, omalizumab, 5 mg	Procedure	HCPCS
J2786	Injection, reslizumab, 1 mg	Procedure	HCPCS
Oral Azithromycin			
Q0144	Azithromycin dihydrate, oral, capsules/powder, 1 g	Procedure	HCPCS
Exacerbation Asthma Inhalers (Short Acting Beta Agonists (SABA) or Short Acting Muscarinic Antagonists (SAMA))			
J7602	Albuterol, all formulations including separated isomers, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, per 1 mg (Albuterol) or per 0.5 mg Levalbuterol)	Procedure	HCPCS
J7603	Albuterol, all formulations including separated isomers, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose, per 1 mg (Albuterol) or per 0.5 mg Levalbuterol)	Procedure	HCPCS
J7607	Levalbuterol, inhalation solution, compounded product, administered through DME, concentrated form, 0.5 mg	Procedure	HCPCS
J7609	Albuterol, inhalation solution, compounded product, administered through DME, unit dose, 1 mg	Procedure	HCPCS
J7610	Albuterol, inhalation solution, compounded product, administered through DME, concentrated form, 1 mg	Procedure	HCPCS
J7611	Albuterol, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, 1 mg	Procedure	HCPCS
J7612	Levalbuterol, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, 0.5 mg	Procedure	HCPCS
J7613	Albuterol, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose, 1 mg	Procedure	HCPCS
J7614	Levalbuterol, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose, 0.5 mg	Procedure	HCPCS
J7615	Levalbuterol, inhalation solution, compounded product, administered through DME, unit dose, 0.5 mg	Procedure	HCPCS
J7616	Albuterol, up to 5 mg and ipratropium bromide, up to 1 mg, compounded inhalation solution, administered through DME	Procedure	HCPCS
J7617	Levalbuterol, up to 2.5 mg and ipratropium bromide, up to 1 mg, compounded inhalation solution, administered through DME	Procedure	HCPCS
J7618	Albuterol, all formulations including separated isomers, inhalation solution administered through DME, concentrated form, per 1 mg (albuterol) or per 0.5 mg (levalbuterol)	Procedure	HCPCS

Appendix F. List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Concomitant Medications in this Request

Code	Description	Code Category	Code Type
J7619	Albuterol, all formulations including separated isomers, inhalation solution administered through DME, unit dose, per 1 mg (albuterol) or per 0.5 mg (levalbuterol)	Procedure	HCPCS
J7620	Albuterol, up to 2.5 mg and ipratropium bromide, up to 0.5 mg, FDA-approved final product, noncompounded, administered through DME	Procedure	HCPCS
J7621	Albuterol, all formulations, including separated isomers, up to 5 mg (albuterol) or 2.5 mg (levalbuterol), and ipratropium bromide, up to 1 mg, compounded inhalation solution, administered through dme	Procedure	HCPCS
J7625	Albuterol sulfate, 0.5%, per ml, inhalation solution administered through DME	Procedure	HCPCS
J7644	Ipratropium bromide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7645	Ipratropium bromide, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
K0504	Albuterol, inhalation solution administered through DME, concentrated form, per milligram	Procedure	HCPCS
K0505	Albuterol, inhalation solution administered through DME, unit dose form, per milligram	Procedure	HCPCS
Oral Glucocorticoids			
J7506	Prednisone, oral, per 5 mg	Procedure	HCPCS
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
J7510	Prednisolone, oral, per 5 mg	Procedure	HCPCS
J7512	Prednisone, immediate release or delayed release, oral, 1 mg	Procedure	HCPCS
J8540	Dexamethasone, oral, 0.25 mg	Procedure	HCPCS
Maintenance Asthma Inhalers (Inhaled Corticosteroids (ICS) or Long Acting Beta Agonists (LABA) or Long Acting Muscarinic Antagonists (LAMA))			
J7606	Formoterol fumarate, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, 20 mcg	Procedure	HCPCS
J7626	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS
J7627	Budesonide, inhalation solution, compounded product, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS
J7633	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, per 0.25	Procedure	HCPCS
J7634	Budesonide, inhalation solution, compounded product, administered through DME, concentrated form, per 0.25 mg	Procedure	HCPCS
J7641	Flunisolide, inhalation solution, compounded product, administered through DME, unit dose, per mg	Procedure	HCPCS
Proton Pump Inhibitors			
C9113	Injection, pantoprazole sodium, per vial	Procedure	HCPCS
S0164	Injection, pantoprazole sodium, 40 mg	Procedure	HCPCS
IL-5 mAbs			
J0517	Injection, benralizumab, 1 mg	Procedure	HCPCS
J2182	Injection, mepolizumab, 1 mg	Procedure	HCPCS
J2786	Injection, reslizumab, 1 mg	Procedure	HCPCS
Purine Analogues			
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS

Appendix F. List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Concomitant Medications in this Request

Code	Description	Code Category	Code Type
Systemic Non-Oral or Injectable Glucocorticoids			
C9092	Injection, triamcinolone acetonide, suprachoroidal (Xipere), 1 mg	Procedure	HCPCS
J0702	Injection, betamethasone acetate 3 mg and betamethasone sodium phosphate 3 mg	Procedure	HCPCS
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J1094	Injection, dexamethasone acetate, 1 mg	Procedure	HCPCS
J1095	Injection, dexamethasone 9%, intraocular, 1 mcg	Procedure	HCPCS
J1100	Injection, dexamethasone sodium phosphate, 1 mg	Procedure	HCPCS
J1700	Injection, hydrocortisone acetate, up to 25 mg	Procedure	HCPCS
J1710	Injection, hydrocortisone sodium phosphate, up to 50 mg	Procedure	HCPCS
J1720	Injection, hydrocortisone sodium succinate, up to 100 mg	Procedure	HCPCS
J2650	Injection, prednisolone acetate, up to 1 ml	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J3299	Injection, triamcinolone acetonide (Xipere), 1 mg	Procedure	HCPCS
J3300	Injection, triamcinolone acetonide, preservative free, 1 mg	Procedure	HCPCS
J3301	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	Procedure	HCPCS
J3302	Injection, triamcinolone diacetate, per 5 mg	Procedure	HCPCS
J3303	Injection, triamcinolone hexacetonide, per 5 mg	Procedure	HCPCS
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J7312	Injection, dexamethasone, intravitreal implant, 0.1 mg	Procedure	HCPCS
Topical Capsaicin			
J7336	Capsaicin 8% patch, per sq cm	Procedure	HCPCS
Systemic Therapies for Prurigo Nodularis			
C9057	Injection, cetirizine HCl, 1 mg	Procedure	HCPCS
C9145	Injection, aprepitant, (Aponvie), 1 mg	Procedure	HCPCS
J0185	Injection, aprepitant, 1 mg	Procedure	HCPCS
J1201	Injection, cetirizine HCl, 0.5 mg	Procedure	HCPCS
J1453	Injection, fosaprepitant, 1 mg	Procedure	HCPCS
J1456	Injection, fosaprepitant (Teva), not therapeutically equivalent to J1453, 1 mg	Procedure	HCPCS
J2212	Injection, methylnaltrexone, 0.1 mg	Procedure	HCPCS
J2315	Injection, naltrexone, depot form, 1 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J8501	Aprepitant, oral, 5 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
Local Nasal Glucocorticoids			
C9122	Mometasone furoate sinus implant, 10 mcg (Sinuva)	Procedure	HCPCS
J7401	Mometasone furoate sinus implant, 10 mcg	Procedure	HCPCS
J7402	Mometasone furoate sinus implant, (Sinuva), 10 mcg	Procedure	HCPCS
J7626	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS

Appendix F. List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Concomitant Medications in this Request

Code	Description	Code Category	Code Type
J7627	Budesonide, inhalation solution, compounded product, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS
J7633	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, per 0.25	Procedure	HCPCS
J7634	Budesonide, inhalation solution, compounded product, administered through DME, concentrated form, per 0.25 mg	Procedure	HCPCS
J7641	Flunisolide, inhalation solution, compounded product, administered through DME, unit dose, per mg	Procedure	HCPCS
S1090	Mometasone furoate sinus implant, 370 micrograms	Procedure	HCPCS

Appendix G.1 Calculation of the Test Statistic for Conditional Bernoulli Probability Model

The log likelihood ratio (LLR) based test statistic T can be calculated as:

$$LLR = \ln \left(\frac{\left(\frac{c_G}{c_G + n_G} \right)^{c_G} \left(\frac{n_G}{c_G + n_G} \right)^{n_G}}{\left(\frac{C}{C + N} \right)^{c_G} \left(\frac{N}{C + N} \right)^{n_G}} \right) I \left(\frac{c_G}{c_G + n_G} > \frac{C}{C + N} \right)$$

$$T = \max_G LLR(G)$$

Where:

T = Tree-based scan statistic

c_G = cases in the risk window for a given

n_G = cases in the control window for a

C = total number of cases in the risk

N = total number of cases in the control

G = node of interest

¹Expression in blue: This is the maximum likelihood estimation. It takes the form of a Bernoulli probability model. The numerator of the equation is based on the observed data. The denominator of the equation is based on the expectation under the null hypothesis. If the observed data “fit” the pattern of the null hypothesis, then this expression would be 1. The “log” of the function is for mathematical convenience. The $\ln(1) = 0$.

²Expression in green: This is an indication function. It means that a log-likelihood ratio (LLR) is ONLY recorded if there are more observed cases than expected. So, a LLR is only calculated among nodes on the tree when the LLR would normally exceed 0 (or the likelihood ratio would exceed 1).

³Expression in red: The Log Likelihood Ratio is calculated for every position (node) on the tree including each individual diagnosis code and groupings of codes. For any dataset (i.e., across all nodes of the tree), the test statistic for that dataset is the maximum across all the nodes.

Appendix G.2 Calculation for the Tree Temporal Scan Statistic Conditioned on Node and Time

The log likelihood ratio (LLR) based test statistic T can be calculated as:

$$LLR = \left(c_G \ln \frac{c_G}{u_G} + ((C + N) - c_G) \ln \left(\frac{(C + N) - c_G}{(C + N) - u_G} \right) \right) I(c_G > u_G)$$

$$T = \max_G LLR(G)$$

$$u_G = (C) \left(\frac{c_G + n_G}{C + N} \right)$$

Where:

T = Tree-based scan statistic

c_G = cases in node G that are in the variable risk window

n_G = cases in node G that are NOT in the variable risk

C = total number of cases in the variable risk window for all

N = total number of cases NOT in the variable risk window

G = node of interest

u_G = expected number of cases in the variable risk window in node G under the null hypothesis

¹Expression in blue: This is the maximum likelihood estimation.

²Expression in green: This is an indication function. It means that a log-likelihood ratio (LLR) is ONLY recorded if there are more observed cases than expected. So, a LLR is only calculated among nodes on the tree when the LLR would normally exceed 0 (or the likelihood ratio would exceed 1).

³Expression in red: The Log Likelihood Ratio is calculated for every position (node) on the tree including each individual diagnosis code and groupings of codes. For any dataset (i.e., across all nodes of the tree), the test statistic for that dataset is the maximum across all the nodes.

Appendix H. Specifications Defining Parameters for this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool (version 12.2.1) to perform a signal identification analysis among individuals exposed to dupilumab in the Sentinel Distributed Database (SDD) using a self-controlled risk interval (SCRI) design.

Query Period: March 1, 2017 - data driven to ensure observability of outcomes through the end of evaluation windows
Coverage Requirement: Medical & Drug Coverage
Enrollment Gap: 45 Days
Age Groups: 12-17, 18-39, 40-64, 65-79, 80+ Years
Stratifications: Age, year, indication covariate, geographic strata (for table 1s)
Envelope macro: *Reclassify encounters during inpatient stay as inpatient
Freeze data: Yes

	Scenario 1	Scenario 2	Scenario 3
Description:	Dupilumab Tree Analysis	Dupilumab Tree Temporal Scan	Dupilumab Tree Temporal Scan
Exposure			
Index Exposure:	Dupilumab	Dupilumab	Dupilumab
Care Setting:	Any	Any	Any
Principal Diagnosis Position:	Any	Any	Any
Pre-Exposure Required Days:	456	400	400
Post-Exposure Required Days:	28	183	56
Incidence Criteria:	Dupilumab	Dupilumab	Dupilumab
Care Setting:	Any	Any	Any
Principal Diagnosis Position:	Any	Any	Any
Create Baseline Table?	Yes	Yes	Yes
Washout (days):	184	184	184
Cohort Definition:	All valid exposure episodes during query period	All valid exposure episodes during query period	All valid exposure episodes during query period
Censoring Criteria:	*Death; *Data Partner (DP) end date; *Query end date	*Death; *DP end date; *Query end date	*Death; *DP end date; *Query end date
Exclusion Criteria			
Pre-existing Conditions:	Ongoing Pregnancy	Ongoing Pregnancy	Ongoing Pregnancy
Care Setting:	Any	Any	Any
Principal Diagnosis Position:	Any	Any	Any
Include/Exclude:	Exclude	Exclude	Exclude
Evaluation Period:	[-183, 28]	[0, 183]	[0, 183]
Number of Instances Code Should Occur:	2	2	2

Appendix H. Specifications Defining Parameters for this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool (version 12.2.1) to perform a signal identification analysis among individuals exposed to dupilumab in the Sentinel Distributed Database (SDD) using a self-controlled risk interval (SCRI) design.

	OR		OR		OR	
Pre-existing Conditions:	Pregnancy Delivery		Pregnancy Delivery		Pregnancy Delivery	
Care Setting:	*Some codes Inpatient (IP), some codes any care setting		*Some codes IP, some codes any care setting		*Some codes IP, some codes any care setting	
Principal Diagnosis Position:	Any		Any		Any	
Include/Exclude:	Exclude		Exclude		Exclude	
Evaluation Period:	[-56, 28]		[0, 183]		[0, 183]	
Code Days:	1		1		1	
Event Outcome						
Risk Window:	[1, 28]	[1, 28]	[1, 183]	[1, 183]	[1, 183]	[1, 183]
Control Window:	[-56, -29]	[-56, -29]	n/a	n/a	n/a	n/a
Event:	Treescan		Treescan		Treescan	
Care Setting:	IP, Emergency Department (ED)	IP, ED, Ambulatory Visit (AV)	IP, ED	IP, ED, AV	IP, ED	IP, ED, AV
Principal Diagnosis Position:	Any		Any		Any	
Node Assessment:	3, 4, 5 Levels		3, 4, 5 Levels		3, 4, 5 Levels	
Tree Washout (days):	400		400		400	

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

Appendix I. Specifications Defining Baseline Characteristics Parameters in this Request

Covariates

Covariate Number	Covariate	Care Setting	Principal Diagnosis Position	Code Category	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply if Covariate Includes Dispensings	Number of Instances the Covariate Should be Found in Evaluation Period
Indications								
1	Any indication	Any	n/a	Diagnosis Code	-183	0	n/a	1
2	Atopic dermatitis	Any	n/a	Diagnosis Code	-183	0	n/a	1
3	Asthma	Any	n/a	Diagnosis Code	-183	0	n/a	1
4	Chronic rhinosinusitis	Any	n/a	Diagnosis Code	-183	0	n/a	1
5	Eosinophilic esophagitis	Any	n/a	Diagnosis Code	-183	0	n/a	1
6	Prurigo Nodularis	Any	n/a	Diagnosis Code	-183	0	n/a	1
27	No indication (NOT covar1)	n/a	n/a	Combo covariate	n/a	n/a	n/a	1
Concomitant Treatments								
7	Topical glucocorticoids	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
8	Topical calcineurin inhibitors	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
9	Other topical prescription therapies	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
10	Systemic therapies for atopic dermatitis	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1

Appendix I. Specifications Defining Baseline Characteristics Parameters in this Request

Covariates

Covariate Number	Covariate	Care Setting	Principal Diagnosis Position	Code Category	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply if Covariate Includes Dispensings	Number of Instances the Covariate Should be Found in Evaluation Period
11	Asthma biologics	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
12	Oral azithromycin	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
13	Exacerbation asthma inhalers (Short Acting Beta Agonists (SABA) or Short Acting Muscarinic Antagonists (SAMA))	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
14	Oral glucocorticoids	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
15	Zileuton	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
16	Montelukast	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
17	Maintenance asthma inhalers (Inhaled Corticosteroids (ICS) or Long Acting Beta Agonists (LABA) or Long Acting Muscarinic Antagonists (LAMA) combinations)	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1

Appendix I. Specifications Defining Baseline Characteristics Parameters in this Request

Covariates

Covariate Number	Covariate	Care Setting	Principal Diagnosis Position	Code Category	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply if Covariate Includes Dispensings	Number of Instances the Covariate Should be Found in Evaluation Period
18	Proton pump inhibitors	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
19	IL-5 Monoclonal Antibodies (mAbs)	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
20	Purine Analogues	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
21	IL-13 Monoclonal Antibodies (mAbs)	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1
22	Systemic non-oral or local injectable glucocorticoids	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
23	Topical capsaicin	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
24	Topical vitamin D analogues	Any	n/a	Drug Code	0	28	Evaluation period should search for evidence of days supply	1

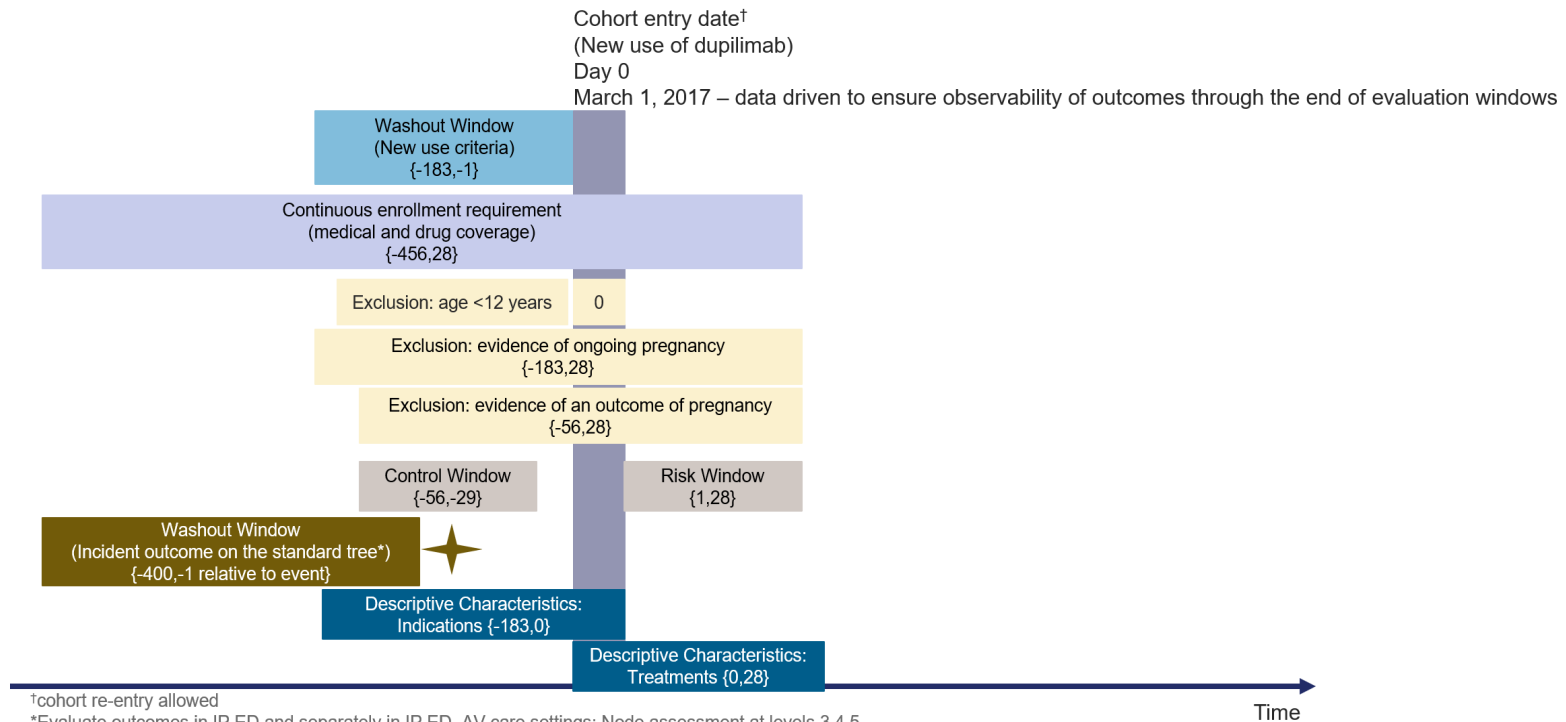
Appendix I. Specifications Defining Baseline Characteristics Parameters in this Request

Covariates

Covariate Number	Covariate	Care Setting	Principal Diagnosis Position	Code Category	Evaluation Period Start	Evaluation Period End	Exclude Evidence of Days Supply if Covariate Includes Dispensings	Number of Instances the Covariate Should be Found in Evaluation Period
25	Systemic therapies for prurigo nodularis	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
26	Local nasal glucocorticoids	Any	n/a	Drug Code Procedure Code	0	28	Evaluation period should search for evidence of days supply	1
n/a	Charlson-Elixhauser combined comorbidity score	n/a	n/a	n/a	-183	-1	n/a	n/a

Appendix J. Diagram Detailing the Fixed Risk Window Analysis (TreeScan Cohort)

Fixed risk window analysis (TreeScan)

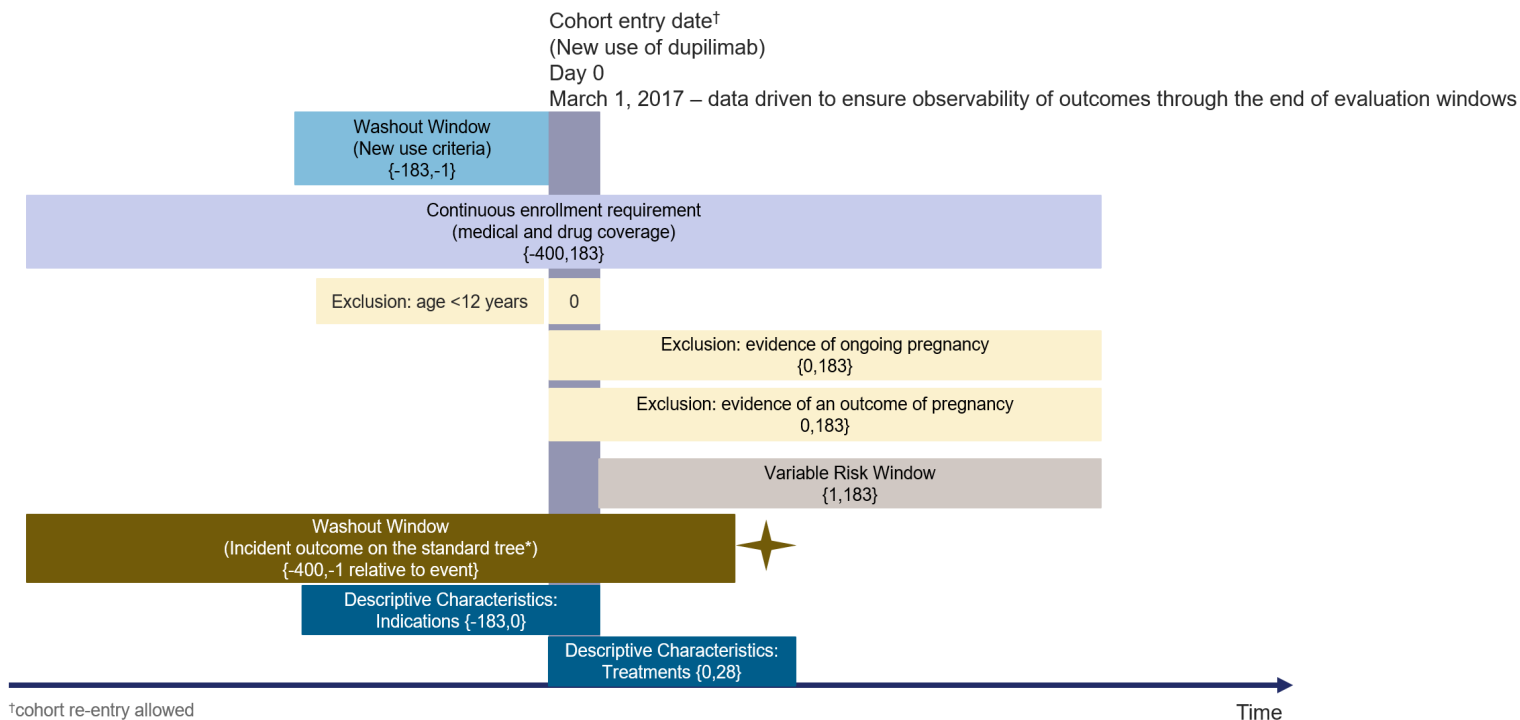


†cohort re-entry allowed

*Evaluate outcomes in IP,ED and separately in IP,ED, AV care settings; Node assessment at levels 3,4,5

[Graphical Depiction of Longitudinal Study Designs in Health Care Databases - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/)

Variable risk window analysis (Tree Temporal Scan)



†cohort re-entry allowed

*Evaluate outcomes in IP,ED and separately in IP,ED, AV care settings; Node assessment at levels 3,4,5

[Graphical Depiction of Longitudinal Study Designs in Health Care Databases - PubMed \(nih.gov\)](#)