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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_mpl1p_wp063

Request ID: cder_mpl1p_wp063

Request Description: In this report we describe the clinical characteristics of pregnancies among individuals with evidence of multiple sclerosis (MS) who received treatment with fingolimod, dimethyl fumarate, beta interferons, or no treatment in the first trimester of pregnancy and the occurrence of cardiac, urinary, other, or any congenital malformations based on evidence available in the mothers' or linked infants' records in the Sentinel Distributed Database (SDD).

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, version 11.3.0, with ad hoc programming was used for this request.

Data Source: We distributed this request to four Sentinel Data Partners with mother-infant linkage on January 23, 2023, including live births identified between January 1, 2011 up to May 31, 2022. See Appendix A for a list of dates of cohort selection and available data for each Data Partner.

MS Treatments of Interest: We created separate cohorts of pregnancies that were exposed to:

- Dimethyl fumarate, but not fingolimod or beta interferons
- Beta interferons, but not fingolimod or dimethyl fumarate
- No treatment with any therapeutic agent indicated for MS (beta interferons, glatiramer acetate, mitoxantrone, natalizumab, fingolimod, dimethyl fumarate, PEGylated interferon, alemtuzumab, ocrelizumab, siponimod, or diroximel fumarate)

We evaluated exposure to MS treatments in two different time windows:

- From the estimated start of pregnancy to the end of the first trimester of pregnancy (90 days)
- From X days prior to estimated start of pregnancy to the end of the first trimester of pregnancy, where X equals five times the half-life of the MS treatment of interest

See Appendices B and C for Healthcare Common Procedure Coding System, Level II (HCPCS) codes used to identify MS treatments of interest.

Cohort Selection Criteria: To be included in this descriptive analysis, an episode of pregnancy was required to have evidence of:

- A live birth delivery linked to an infant per the Sentinel Common Data Model Mother-Infant Linkage (MIL) Table
- Continuous enrollment in a health plan with medical and drug coverage for at least 484 days before and up to 30 or 90 days after live birth delivery, during which gaps of up to 45 days were permissible
- No live birth delivery recorded in 273 days prior to the live birth delivery being evaluated for inclusion
- A diagnosis of MS in the 183 days prior to the estimated start of pregnancy, and as applicable, use of MS treatment of interest (fingolimod, dimethyl fumarate, beta interferons) in the first trimester of pregnancy defined as 90 days starting from the estimated start of pregnancy
- No malformations resulting from chromosomal abnormalities recorded during the pregnancy or up to 30 or 90 days after live birth delivery
- No use of teratogens in the 90 days before and after estimated start of pregnancy

An individual was allowed to contribute multiple qualifying episodes of pregnancies during the cohort selection period to the analysis.

See Appendices D, E, and F for List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Classification System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes used to define MS, malformations, teratogens, and live birth delivery.

Overview for Request: cder_mpl1p_wp063

Pregnancy Episode Creation: We identified pregnancies ending in a live birth delivery using the MIL Table¹. The MIL Table identifies live birth deliveries and matches mother patient IDs to infant patient IDs when possible. Live birth deliveries are eligible for the MIL Table when the following criteria are met: the encounter occurred at least one year later than the start date of Data Partner data availability (Appendix A), the female individual was between 10 and 54 years of age, there was no evidence of delivery in the prior 180 days, and the individual had at least 180 days of continuous medical coverage, allowing for gaps up to 45 days, through the delivery date.

We used a validated algorithm from Sentinel's Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP)² to estimate the length of pregnancy episodes via gestational age codes, including pre-/post-term delivery codes that occurred within 7 days of a delivery date in the inpatient care setting. In the absence of pre-/post-term codes, pregnancy duration was set to 273 days. See Appendix F for a list of ICD-9-CM, ICD-10-CM, ICD-10-PCS, and CPT-4 codes used to define live birth delivery. See Appendix G for a list of ICD-9-CM and ICD-10-CM codes and algorithm information used to define gestational age.

Baseline Characteristics: We described the obstetric comorbidity index evaluated from 484 days prior the date of delivery to the day of delivery³. We adapted the Bateman algorithm³ for obstetric comorbidity index to include validated ICD-9-CM and mapped ICD-10-CM codes for conditions included in the index. Further, we described the following clinical characteristics evaluated from 183 days prior to estimated start of pregnancy to 90 days since estimated start of pregnancy: psychiatric and neurological conditions, substance use disorder, use of nicotine, diabetes, hypertension, obesity, urinary disease, use of psychotropic medications, non-insulin antidiabetic medications, antihypertensive medications, buprenorphine, insulin, methadone, naloxone, naltrexone, opioids, and suspected teratogens such as fluconazole, methimazole, danazol, propylthiouracil, progestins, angiotensin converting enzyme inhibitors, and corticosteroids.

See Appendices H, and I for ICD-9-CM, ICD-10-CM, ICD-10-PCS, and CPT-4 codes used to identify baseline characteristics.

Specific Congenital Malformations of Interest: We evaluated the occurrence of specific congenital malformations namely cardiac malformations, urinary malformations, other non-cardiac or urinary malformations, and any (cardiac, urinary, or other) malformations.

We searched for evidence of a single code representing cardiac, urinary, other, or any malformations in the first, second, and third trimesters of pregnancy in the mothers' records and within 30 or 90 days of delivery in the mothers' or infants' records. Separately, we searched for at least 2 instances of codes representing cardiac, urinary, other, or any malformations in the first, second, and third trimesters of pregnancy in the mothers' records and within 30 or 90 days of delivery in the mothers' or infants' records.

See Appendix J for ICD-9-CM, ICD-10-CM, ICD-10-PCS, and CPT-4 codes used to identify congenital malformations of interest.

For detailed specifications of parameters used in the analysis, please refer to Appendix K to define cohort entry, Appendix L for half-lives of MS treatments, Appendix M to define baseline characteristics and specific congenital malformations of interest, and Appendix N for a query design diagram.

Limitations: Algorithms used to define live birth delivery, gestational age, and specific congenital malformations are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

¹Pregnancy Episodes Cohort Identification Strategy. Sentinel Initiative. Available from: <https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse/files/file150-type04-pregepi.md>

²Li Q, Andrade SE, Cooper WO, et al. Validation of an algorithm to estimate gestational age in electronic health plan databases. *Pharmacoepidemiol Drug Saf.* 2013;22:524-32.

³Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a Comorbidity Index for Use in Obstetric Patients. *Obstet Gynecol.* 2013;122(5):10.1097/AOG.0b013e3182a603bb. doi:10.1097/AOG.0b013e3182a603bb

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

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

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

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*all terms may not be used in this report

Table 1a. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Mother Characteristics²		Number	
Unique patients		49	
Unique episodes		51	
Demographic Characteristics		Mean	Standard Deviation
Age (years)		32.3	3.9
Age		Number	Percent/ Standard Deviation³
10-17 years		*****	*****
18-39 years		*****	*****
40-54 years		*****	*****
Sex			
Female		49	100.00%
Race ⁴			
American Indian or Alaska Native		0	0.00%
Asian		*****	*****
Black or African American		0	0.00%
Native Hawaiian or Other Pacific Islander		0	0.00%
Unknown		*****	*****
White		*****	*****
Hispanic origin			
Yes		0	0.00%
No		*****	*****
Unknown		*****	*****
Year			
2011		0	0.00%
2012		*****	*****
2013		*****	*****
2014		*****	*****
2015		*****	*****
2016		*****	*****
2017		12	23.50%
2018		*****	*****
2019		*****	*****
2020		*****	*****
2021		*****	*****
2022		0	0.00%

Table 1a. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	31	60.80%
Post-Term (281-301 days)	*****	*****
Unknown Term	*****	*****
Gestational age ⁵ at delivery	39.4	1.7
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	0	0.00%
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	0	0.00%
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1a. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	0	0.00%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	0	0.00%
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	20	39.20%
Substance Use Disorder	0	0.00%
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.6	0.9

Table 1a. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	31	60.80%
1-2	*****	*****
3-4	*****	*****
5-6	0	0.00%
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	20	39.20%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	0	0.00%
Insulin	0	0.00%
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	*****	*****
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

⁶Final pregnancy episode and patient counts as well as health characteristics (count variables) were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population. Continuous metrics were not further revised.

*****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

Table 1b. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Mother Characteristics²		Number	
Unique patients		63	
Unique episodes		65	
Demographic Characteristics		Mean	Standard Deviation
Age (years)		31.9	4
Age		Number	Percent/ Standard Deviation³
10-17 years		*****	*****
18-39 years		*****	*****
40-54 years		*****	*****
Sex			
Female		63	100.00%
Race ⁴			
American Indian or Alaska Native		0	0.00%
Asian		*****	*****
Black or African American		0	0.00%
Native Hawaiian or Other Pacific Islander		0	0.00%
Unknown		52	82.50%
White		*****	*****
Hispanic origin			
Yes		0	0.00%
No		*****	*****
Unknown		*****	*****
Year			
2011		0	0.00%
2012		*****	*****
2013		*****	*****
2014		*****	*****
2015		*****	*****
2016		*****	*****
2017		14	21.50%
2018		13	20.00%
2019		11	16.90%
2020		*****	*****
2021		*****	*****
2022		0	0.00%

Table 1b. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	35	53.90%
Post-Term (281-301 days)	*****	*****
Unknown Term	13	20.00%
Gestational age ⁵ at delivery	39.5	1.6
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	0	0.00%
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	0	0.00%
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1b. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	0	0.00%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	0	0.00%
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	24	36.90%
Substance Use Disorder	0	0.00%
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.5	0.9

Table 1b. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	42	64.60%
1-2	*****	*****
3-4	*****	*****
5-6	0	0.00%
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	30	46.20%
Antidiabetic medications	*****	*****
Antihypertensive medications	11	16.90%
Buprenorphine	0	0.00%
Insulin	0	0.00%
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	*****	*****
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

⁶Final pregnancy episode and patient counts as well as health characteristics (count variables) were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population. Continuous metrics were not further revised.

*****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. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Mother Characteristics²	Number	
Unique patients	94	
Unique episodes	98	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.9	4.4
	Number	Percent/ Standard Deviation³
Age		
10-17 years	0	0.00%
18-39 years	*****	*****
40-54 years	*****	*****
Sex		
Female	94	100.00%
Race ⁴		
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	77	81.90%
White	*****	*****
Hispanic origin		
Yes	0	0.00%
No	12	12.80%
Unknown	82	87.20%
Year		
2011	22	22.40%
2012	16	16.30%
2013	11	11.20%
2014	*****	*****
2015	*****	*****
2016	*****	*****
2017	13	13.30%
2018	13	13.30%
2019	*****	*****
2020	*****	*****
2021	*****	*****
2022	0	0.00%

Table 1c. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	24	24.50%
Post-Term (281-301 days)	*****	*****
Unknown Term	48	49.00%
Gestational age ⁵ at delivery	39.8	1.7
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	*****	*****
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	0	0.00%
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	*****	*****
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	0	0.00%
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0.7	1

Table 1c. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	*****	*****
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	26	26.50%
Substance Use Disorder	*****	*****
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.7	1

Table 1c. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	56	57.10%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	41	41.80%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	*****	*****
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	18	18.40%
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1d. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Mother Characteristics²		Number	
Unique patients		112	
Unique episodes		116	
Demographic Characteristics		Mean	Standard Deviation
Age (years)		32.8	4.6
		Number	Percent/ Standard Deviation³
Age			
10-17 years		0	0.00%
18-39 years		*****	*****
40-54 years		*****	*****
Sex			
Female		112	100.00%
Race ⁴			
American Indian or Alaska Native		0	0.00%
Asian		0	0.00%
Black or African American		*****	*****
Native Hawaiian or Other Pacific Islander		0	0.00%
Unknown		95	84.80%
White		*****	*****
Hispanic origin			
Yes		0	0.00%
No		12	10.70%
Unknown		100	89.30%
Year			
2011		23	19.80%
2012		25	21.60%
2013		13	11.20%
2014		*****	*****
2015		*****	*****
2016		*****	*****
2017		14	12.10%
2018		13	11.20%
2019		*****	*****
2020		*****	*****
2021		*****	*****
2022		0	0.00%

Table 1d. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	25	21.60%
Post-Term (281-301 days)	*****	*****
Unknown Term	60	51.70%
Gestational age ⁵ at delivery	39.9	1.7
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	*****	*****
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	0	0.00%
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	*****	*****
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	0	0.00%
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1d. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	*****	*****
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	31	26.70%
Substance Use Disorder	*****	*****
Nicotine use	12	10.30%
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.7	1

Table 1d. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	66	56.90%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	47	40.50%
Antidiabetic medications	*****	*****
Antihypertensive medications	12	10.30%
Buprenorphine	*****	*****
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	21	18.10%
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1e. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Mother Characteristics²	Number	
Unique patients	95	
Unique episodes	98	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.8	4.6
	Number	Percent/ Standard Deviation³
Age		
10-17 years	0	0.00%
18-39 years	*****	*****
40-54 years	*****	*****
Sex		
Female	95	100.00%
Race ⁴		
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	76	80.00%
White	*****	*****
Hispanic origin		
Yes	*****	*****
No	*****	*****
Unknown	74	77.90%
Year		
2011	0	0.00%
2012	0	0.00%
2013	0	0.00%
2014	*****	*****
2015	*****	*****
2016	15	15.30%
2017	13	13.30%
2018	23	23.50%
2019	*****	*****
2020	21	21.40%
2021	*****	*****
2022	0	0.00%

Table 1e. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	50	51.00%
Post-Term (281-301 days)	23	23.50%
Unknown Term	*****	*****
Gestational age ⁵ at delivery	39.3	2.4
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	*****	*****
Cardiac malformations in the third trimester	0	0.00%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	*****	*****
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	*****	*****
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	*****	*****
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	*****	*****
Urinary malformations in the third trimester (2+ codes)	*****	*****
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	*****	*****
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	*****	*****
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1e. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations post-delivery (2+ codes)	*****	*****
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	0	0.00%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	*****	*****
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	*****	*****
Any malformations post-delivery (2+ codes)	*****	*****
Psychiatric and neurological conditions	37	37.80%
Substance Use Disorder	*****	*****
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.8	1

Table 1e. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	49	50.00%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	43	43.90%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	0	0.00%
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	17	17.30%
Suspected teratogens	14	14.30%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1f. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Mother Characteristics²	Number	
Unique patients	1,695	
Unique episodes	1,782	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.1	4.3
	Number	Percent/ Standard Deviation³
Age		
10-17 years	*****	*****
18-39 years	1705	95.70%
40-54 years	*****	*****
Sex		
Female	1,695	100.00%
Race ⁴		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	84	5.00%
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	1,349	79.60%
White	250	14.70%
Hispanic origin		
Yes	48	2.80%
No	233	13.70%
Unknown	1,414	83.40%
Year		
2011	121	6.80%
2012	129	7.20%
2013	134	7.50%
2014	125	7.00%
2015	163	9.10%
2016	185	10.40%
2017	263	14.80%
2018	257	14.40%
2019	131	7.40%
2020	120	6.70%
2021	132	7.40%
2022	22	1.20%

Table 1f. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	138	7.70%
Term (259-280 days)	779	43.70%
Post-Term (281-301 days)	322	18.10%
Unknown Term	543	30.50%
Gestational age ⁵ at delivery	39.7	1.5
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	*****	*****
Cardiac malformations in the second trimester	13	0.70%
Cardiac malformations in the third trimester	16	0.90%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	32	1.80%
Cardiac malformations in the first trimester (2+ codes)	*****	*****
Cardiac malformations in the second trimester (2+ codes)	*****	*****
Cardiac malformations in the third trimester (2+ codes)	*****	*****
Cardiac malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac malformations post-delivery (2+ codes)	*****	*****
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	11	0.60%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	*****	*****
Cardiac or Urinary malformations in the first trimester	*****	*****
Cardiac or Urinary malformations in the second trimester	14	0.80%
Cardiac or Urinary malformations in the third trimester	26	1.50%
Cardiac or Urinary malformations in the second or third trimester	32	1.80%
Cardiac or Urinary malformations post-delivery	42	2.40%
Cardiac or Urinary malformations in the first trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	*****	*****

Table 1f. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	11	0.60%
Cardiac or Urinary malformations post-delivery (2+ codes)	13	0.70%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	*****	*****
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	14	0.80%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	*****	*****
Any non-cardiac/urinary malformations post-delivery (2+ codes)	*****	*****
Any malformations in the first trimester	*****	*****
Any malformations in the second trimester	16	0.90%
Any malformations in the third trimester	32	1.80%
Any malformations in the second or third trimester	39	2.20%
Any malformations post-delivery	51	2.90%
Any malformations in the first trimester (2+ codes)	*****	*****
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	12	0.70%
Any malformations post-delivery (2+ codes)	18	1.00%
Psychiatric and neurological conditions	700	39.30%
Substance Use Disorder	55	3.10%
Nicotine use	209	11.70%
Diabetes	55	3.10%
Hypertension	93	5.20%
Obesity	155	8.70%
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.7	1.1

Table 1f. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	981	55.10%
1-2	692	38.80%
3-4	82	4.60%
5-6	15	0.80%
7-8	*****	*****
9-10	*****	*****
>10	*****	*****
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	621	34.80%
Antidiabetic medications	43	2.40%
Antihypertensive medications	129	7.20%
Buprenorphine	*****	*****
Insulin	14	0.80%
Methadone	*****	*****
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	379	21.30%
Suspected teratogens	280	15.70%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1g. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Mother Characteristics²	Number	
Unique patients	1,597	
Unique episodes	1,669	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.1	4.3
	Number	Percent/ Standard Deviation³
Age		
10-17 years	*****	*****
18-39 years	1,595	95.60%
40-54 years	*****	*****
Sex		
Female	1,597	100.00%
Race ⁴		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	82	5.10%
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	1,265	79.20%
White	238	14.90%
Hispanic origin		
Yes	46	2.90%
No	226	14.20%
Unknown	1,325	83.00%
Year		
2011	118	7.10%
2012	112	6.70%
2013	129	7.70%
2014	121	7.20%
2015	155	9.30%
2016	182	10.90%
2017	255	15.30%
2018	248	14.90%
2019	122	7.30%
2020	101	6.10%
2021	111	6.70%
2022	15	0.90%

Table 1g. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	129	7.70%
Term (259-280 days)	735	44.00%
Post-Term (281-301 days)	295	17.70%
Unknown Term	510	30.60%
Gestational age ⁵ at delivery	39.7	1.6
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	*****	*****
Cardiac malformations in the second trimester	13	0.80%
Cardiac malformations in the third trimester	16	1.00%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	32	1.90%
Cardiac malformations in the first trimester (2+ codes)	*****	*****
Cardiac malformations in the second trimester (2+ codes)	*****	*****
Cardiac malformations in the third trimester (2+ codes)	*****	*****
Cardiac malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac malformations post-delivery (2+ codes)	*****	*****
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	*****	*****
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	*****	*****
Cardiac or Urinary malformations in the first trimester	*****	*****
Cardiac or Urinary malformations in the second trimester	14	0.80%
Cardiac or Urinary malformations in the third trimester	26	1.60%
Cardiac or Urinary malformations in the second or third trimester	32	1.90%
Cardiac or Urinary malformations post-delivery	41	2.50%
Cardiac or Urinary malformations in the first trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	*****	*****

Table 1g. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	11	0.70%
Cardiac or Urinary malformations post-delivery (2+ codes)	13	0.80%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	*****	*****
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	12	0.70%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	*****	*****
Any malformations in the first trimester	*****	*****
Any malformations in the second trimester	15	0.90%
Any malformations in the third trimester	31	1.90%
Any malformations in the second or third trimester	38	2.30%
Any malformations post-delivery	49	2.90%
Any malformations in the first trimester (2+ codes)	*****	*****
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	11	0.70%
Any malformations post-delivery (2+ codes)	17	1.00%
Psychiatric and neurological conditions	659	39.50%
Substance Use Disorder	55	3.30%
Nicotine use	194	11.60%
Diabetes	52	3.10%
Hypertension	88	5.30%
Obesity	144	8.60%
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.8	1.2

Table 1g. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	910	54.50%
1-2	653	39.10%
3-4	80	4.80%
5-6	14	0.80%
7-8	*****	*****
9-10	*****	*****
>10	*****	*****
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	578	34.60%
Antidiabetic medications	40	2.40%
Antihypertensive medications	122	7.30%
Buprenorphine	*****	*****
Insulin	14	0.80%
Methadone	*****	*****
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	366	21.90%
Suspected teratogens	266	15.90%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1h. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Mother Characteristics²		Number	
Unique patients		37	
Unique episodes		39	
Demographic Characteristics		Mean	Standard Deviation
Age (years)		32	3.9
Age		Number	Percent/ Standard Deviation³
10-17 years		*****	*****
18-39 years		*****	*****
40-54 years		*****	*****
Sex			
Female		37	100.00%
Race ⁴			
American Indian or Alaska Native		0	0.00%
Asian		*****	*****
Black or African American		0	0.00%
Native Hawaiian or Other Pacific Islander		0	0.00%
Unknown		*****	*****
White		*****	*****
Hispanic origin			
Yes		0	0.00%
No		*****	*****
Unknown		*****	*****
Year			
2011		0	0.00%
2012		*****	*****
2013		*****	*****
2014		*****	*****
2015		*****	*****
2016		*****	*****
2017		*****	*****
2018		*****	*****
2019		*****	*****
2020		*****	*****
2021		*****	*****
2022		0	0.00%

Table 1h. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	22	56.40%
Post-Term (281-301 days)	*****	*****
Unknown Term	*****	*****
Gestational age ⁵ at delivery	39.5	1.8
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	0	0.00%
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	0	0.00%
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1h. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	17	43.60%
Substance Use Disorder	0	0.00%
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.6	0.9

Table 1h. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	24	61.50%
1-2	*****	*****
3-4	*****	*****
5-6	0	0.00%
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	17	43.60%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	0	0.00%
Insulin	0	0.00%
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	*****	*****
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

⁶Final pregnancy episode and patient counts as well as health characteristics (count variables) were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population. Continuous metrics were not further revised.

*****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

Table 1i. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Mother Characteristics ²	Number	
Unique patients	47	
Unique episodes	49	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	31.8	3.9
	Number	Percent/ Standard Deviation ³
Age		
10-17 years	*****	*****
18-39 years	*****	*****
40-54 years	*****	*****
Sex		
Female	47	100.00%
Race ⁴		
American Indian or Alaska Native	0	0.00%
Asian	*****	*****
Black or African American	0	0.00%
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	36	76.60%
White	*****	*****
Hispanic origin		
Yes	0	0.00%
No	*****	*****
Unknown	*****	*****
Year		
2011	0	0.00%
2012	*****	*****
2013	*****	*****
2014	*****	*****
2015	*****	*****
2016	*****	*****
2017	12	24.50%
2018	12	24.50%
2019	*****	*****
2020	*****	*****
2021	*****	*****
2022	0	0.00%

Table 1i. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	25	51.00%
Post-Term (281-301 days)	*****	*****
Unknown Term	*****	*****
Gestational age ⁵ at delivery	39.5	1.8
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	*****	*****
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	*****	*****
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	*****	*****
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	*****	*****

Table 1i. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	0	0.00%
Psychiatric and neurological conditions	20	40.80%
Substance Use Disorder	0	0.00%
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.5	0.9

Table 1i. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod Use in the 45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022^{1,6}

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	32	65.30%
1-2	*****	*****
3-4	*****	*****
5-6	0	0.00%
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	24	49.00%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	0	0.00%
Insulin	0	0.00%
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	*****	*****
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

⁶Final pregnancy episode and patient counts as well as health characteristics (count variables) were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population. Continuous metrics were not further revised.

*****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 1j. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Mother Characteristics²		Number	
Unique patients		82	
Unique episodes		84	
Demographic Characteristics		Mean	Standard Deviation
Age (years)		32.8	4.6
		Number	Percent/ Standard Deviation³
Age			
10-17 years		0	0.00%
18-39 years		*****	*****
40-54 years		*****	*****
Sex			
Female		82	100.00%
Race ⁴			
American Indian or Alaska Native		0	0.00%
Asian		0	0.00%
Black or African American		*****	*****
Native Hawaiian or Other Pacific Islander		0	0.00%
Unknown		68	82.90%
White		*****	*****
Hispanic origin			
Yes		0	0.00%
No		*****	*****
Unknown		*****	*****
Year			
2011		18	21.40%
2012		14	16.70%
2013		*****	*****
2014		*****	*****
2015		*****	*****
2016		*****	*****
2017		*****	*****
2018		11	13.10%
2019		*****	*****
2020		0	0.00%
2021		*****	*****
2022		0	0.00%

Table 1j. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	20	23.80%
Post-Term (281-301 days)	*****	*****
Unknown Term	41	48.80%
Gestational age ⁵ at delivery	39.8	1.8
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	0	0.00%
Cardiac malformations in the second or third trimester	0	0.00%
Cardiac malformations post-delivery	*****	*****
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	0	0.00%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	0	0.00%
Cardiac or Urinary malformations in the second or third trimester	0	0.00%
Cardiac or Urinary malformations post-delivery	*****	*****
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1j. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	*****	*****
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	0	0.00%
Any malformations in the second or third trimester	0	0.00%
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	*****	*****
Psychiatric and neurological conditions	24	28.60%
Substance Use Disorder	*****	*****
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.7	1

Table 1j. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	48	57.10%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	34	40.50%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	*****	*****
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	*****	*****
Naltrexone	0	0.00%
Opioids	15	17.90%
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1k. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Mother Characteristics²	Number	
Unique patients	98	
Unique episodes	100	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.7	4.8
	Number	Percent/ Standard Deviation³
Age		
10-17 years	0	0.00%
18-39 years	*****	*****
40-54 years	*****	*****
Sex		
Female	98	100.00%
Race ⁴		
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	84	85.70%
White	*****	*****
Hispanic origin		
Yes	0	0.00%
No	*****	*****
Unknown	*****	*****
Year		
2011	19	19.00%
2012	22	22.00%
2013	11	11.00%
2014	*****	*****
2015	*****	*****
2016	*****	*****
2017	11	11.00%
2018	11	11.00%
2019	*****	*****
2020	*****	*****
2021	*****	*****
2022	0	0.00%

Table 1k. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	*****	*****
Post-Term (281-301 days)	21	21.00%
Unknown Term	51	51.00%
Gestational age ⁵ at delivery	39.9	1.7
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	0	0.00%
Cardiac malformations in the third trimester	0	0.00%
Cardiac malformations in the second or third trimester	0	0.00%
Cardiac malformations post-delivery	*****	*****
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	*****	*****
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	0	0.00%
Urinary malformations in the third trimester	0	0.00%
Urinary malformations in the second or third trimester	0	0.00%
Urinary malformations post-delivery	0	0.00%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Urinary malformations post-delivery (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	0	0.00%
Cardiac or Urinary malformations in the third trimester	0	0.00%
Cardiac or Urinary malformations in the second or third trimester	0	0.00%
Cardiac or Urinary malformations post-delivery	*****	*****
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1k. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations post-delivery (2+ codes)	*****	*****
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	*****	*****
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	*****	*****
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	0	0.00%
Any malformations in the third trimester	0	0.00%
Any malformations in the second or third trimester	0	0.00%
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	0	0.00%
Any malformations in the third trimester (2+ codes)	0	0.00%
Any malformations in the second or third trimester (2+ codes)	0	0.00%
Any malformations post-delivery (2+ codes)	*****	*****
Psychiatric and neurological conditions	29	29.00%
Substance Use Disorder	*****	*****
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	0	0.00%
Obstetric Comorbidity Index	0.7	1

Table 1k. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon Use in the 22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	57	57.00%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	39	39.00%
Antidiabetic medications	*****	*****
Antihypertensive medications	11	11.00%
Buprenorphine	*****	*****
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	*****	*****
Naltrexone	0	0.00%
Opioids	17	17.00%
Suspected teratogens	*****	*****

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1I. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Mother Characteristics²	Number	
Unique patients	82	
Unique episodes	85	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	33	4.6
	Number	Percent/ Standard Deviation³
Age		
10-17 years	0	0.00%
18-39 years	*****	*****
40-54 years	*****	*****
Sex		
Female	82	100.00%
Race ⁴		
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	64	78.00%
White	*****	*****
Hispanic origin		
Yes	*****	*****
No	*****	*****
Unknown	62	75.60%
Year		
2011	0	0.00%
2012	0	0.00%
2013	0	0.00%
2014	*****	*****
2015	*****	*****
2016	14	16.50%
2017	13	15.30%
2018	20	23.50%
2019	*****	*****
2020	17	20.00%
2021	*****	*****
2022	0	0.00%

Table 1I. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	*****	*****
Term (259-280 days)	45	52.90%
Post-Term (281-301 days)	22	25.90%
Unknown Term	*****	*****
Gestational age ⁵ at delivery	39.3	2.5
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	0	0.00%
Cardiac malformations in the second trimester	*****	*****
Cardiac malformations in the third trimester	0	0.00%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	*****	*****
Cardiac malformations in the first trimester (2+ codes)	0	0.00%
Cardiac malformations in the second trimester (2+ codes)	0	0.00%
Cardiac malformations in the third trimester (2+ codes)	0	0.00%
Cardiac malformations in the second or third trimester (2+ codes)	0	0.00%
Cardiac malformations post-delivery (2+ codes)	*****	*****
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	*****	*****
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	*****	*****
Urinary malformations in the third trimester (2+ codes)	*****	*****
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	*****	*****
Cardiac or Urinary malformations in the first trimester	0	0.00%
Cardiac or Urinary malformations in the second trimester	*****	*****
Cardiac or Urinary malformations in the third trimester	*****	*****
Cardiac or Urinary malformations in the second or third trimester	*****	*****
Cardiac or Urinary malformations post-delivery	*****	*****
Cardiac or Urinary malformations in the first trimester (2+ codes)	0	0.00%
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	*****	*****

Table 1I. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations post-delivery (2+ codes)	*****	*****
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	0	0.00%
Any non-cardiac/urinary malformations in the third trimester	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester	0	0.00%
Any non-cardiac/urinary malformations post-delivery	0	0.00%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	0	0.00%
Any malformations in the first trimester	0	0.00%
Any malformations in the second trimester	*****	*****
Any malformations in the third trimester	*****	*****
Any malformations in the second or third trimester	*****	*****
Any malformations post-delivery	*****	*****
Any malformations in the first trimester (2+ codes)	0	0.00%
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	*****	*****
Any malformations post-delivery (2+ codes)	*****	*****
Psychiatric and neurological conditions	34	40.00%
Substance Use Disorder	*****	*****
Nicotine use	*****	*****
Diabetes	*****	*****
Hypertension	*****	*****
Obesity	*****	*****
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.8	1.1

Table 1I. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate Use in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	42	49.40%
1-2	*****	*****
3-4	*****	*****
5-6	*****	*****
7-8	0	0.00%
9-10	0	0.00%
>10	0	0.00%
Medical Product Use	Number	Percent/ Standard Deviation³
Psychotropic medications	39	45.90%
Antidiabetic medications	*****	*****
Antihypertensive medications	*****	*****
Buprenorphine	0	0.00%
Insulin	*****	*****
Methadone	0	0.00%
Naloxone	0	0.00%
Naltrexone	0	0.00%
Opioids	14	16.50%
Suspected teratogens	14	16.50%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1m. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Mother Characteristics²	Number	
Unique patients	1,474	
Unique episodes	1,548	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.2	4.3
	Number	Percent/ Standard Deviation³
Age		
10-17 years	*****	*****
18-39 years	1,477	95.40%
40-54 years	*****	*****
Sex		
Female	1,474	100.00%
Race ⁴		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	1,178	79.90%
White	213	14.50%
Hispanic origin		
Yes	43	2.90%
No	203	13.80%
Unknown	1,228	83.30%
Year		
2011	110	7.10%
2012	117	7.60%
2013	111	7.20%
2014	112	7.20%
2015	146	9.40%
2016	163	10.50%
2017	239	15.40%
2018	213	13.80%
2019	112	7.20%
2020	*****	*****
2021	111	7.20%
2022	*****	*****

Table 1m. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	123	7.90%
Term (259-280 days)	675	43.60%
Post-Term (281-301 days)	275	17.80%
Unknown Term	475	30.70%
Gestational age ⁵ at delivery	39.7	1.5
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	*****	*****
Cardiac malformations in the second trimester	12	0.80%
Cardiac malformations in the third trimester	14	0.90%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	58	3.70%
Cardiac malformations in the first trimester (2+ codes)	*****	*****
Cardiac malformations in the second trimester (2+ codes)	*****	*****
Cardiac malformations in the third trimester (2+ codes)	*****	*****
Cardiac malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac malformations post-delivery (2+ codes)	23	1.50%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	13	0.80%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	*****	*****
Cardiac or Urinary malformations in the first trimester	*****	*****
Cardiac or Urinary malformations in the second trimester	13	0.80%
Cardiac or Urinary malformations in the third trimester	22	1.40%
Cardiac or Urinary malformations in the second or third trimester	28	1.80%
Cardiac or Urinary malformations post-delivery	70	4.50%
Cardiac or Urinary malformations in the first trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1m. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation ³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations post-delivery (2+ codes)	29	1.90%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	*****	*****
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	21	1.40%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	*****	*****
Any non-cardiac/urinary malformations post-delivery (2+ codes)	12	0.80%
Any malformations in the first trimester	*****	*****
Any malformations in the second trimester	15	1.00%
Any malformations in the third trimester	28	1.80%
Any malformations in the second or third trimester	35	2.30%
Any malformations post-delivery	86	5.60%
Any malformations in the first trimester (2+ codes)	*****	*****
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	11	0.70%
Any malformations post-delivery (2+ codes)	37	2.40%
Psychiatric and neurological conditions	603	39.00%
Substance Use Disorder	44	2.80%
Nicotine use	174	11.20%
Diabetes	44	2.80%
Hypertension	80	5.20%
Obesity	131	8.50%
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.8	1.2

Table 1m. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	848	54.80%
1-2	604	39.00%
3-4	71	4.60%
5-6	14	0.90%
7-8	*****	*****
9-10	*****	*****
>10	*****	*****
Medical Product Use		
Psychotropic medications	539	34.80%
Antidiabetic medications	36	2.30%
Antihypertensive medications	104	6.70%
Buprenorphine	*****	*****
Insulin	13	0.80%
Methadone	*****	*****
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	325	21.00%
Suspected teratogens	250	16.10%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 1n. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Mother Characteristics²	Number	
Unique patients	1,398	
Unique episodes	1,460	
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.2	4.3
	Number	Percent/ Standard Deviation³
Age		
10-17 years	*****	*****
18-39 years	1,392	95.30%
40-54 years	*****	*****
Sex		
Female	1,398	100.00%
Race ⁴		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	*****	*****
Native Hawaiian or Other Pacific Islander	0	0.00%
Unknown	1,114	79.70%
White	203	14.50%
Hispanic origin		
Yes	41	2.90%
No	196	14.00%
Unknown	1,161	83.00%
Year		
2011	107	7.30%
2012	103	7.10%
2013	108	7.40%
2014	108	7.40%
2015	139	9.50%
2016	160	11.00%
2017	231	15.80%
2018	206	14.10%
2019	104	7.10%
2020	95	6.50%
2021	*****	*****
2022	*****	*****

Table 1n. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Pregnancy Characteristics	Number	Percent/ Standard Deviation³
Pre-Term (0-258 days)	115	7.90%
Term (259-280 days)	644	44.10%
Post-Term (281-301 days)	253	17.30%
Unknown Term	448	30.70%
Gestational age ⁵ at delivery	39.7	1.5
Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac malformations in the first trimester	*****	*****
Cardiac malformations in the second trimester	12	0.80%
Cardiac malformations in the third trimester	14	1.00%
Cardiac malformations in the second or third trimester	*****	*****
Cardiac malformations post-delivery	56	3.80%
Cardiac malformations in the first trimester (2+ codes)	*****	*****
Cardiac malformations in the second trimester (2+ codes)	*****	*****
Cardiac malformations in the third trimester (2+ codes)	*****	*****
Cardiac malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac malformations post-delivery (2+ codes)	22	1.50%
Urinary malformations in the first trimester	0	0.00%
Urinary malformations in the second trimester	*****	*****
Urinary malformations in the third trimester	*****	*****
Urinary malformations in the second or third trimester	*****	*****
Urinary malformations post-delivery	12	0.80%
Urinary malformations in the first trimester (2+ codes)	0	0.00%
Urinary malformations in the second trimester (2+ codes)	0	0.00%
Urinary malformations in the third trimester (2+ codes)	0	0.00%
Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Urinary malformations post-delivery (2+ codes)	*****	*****
Cardiac or Urinary malformations in the first trimester	*****	*****
Cardiac or Urinary malformations in the second trimester	13	0.90%
Cardiac or Urinary malformations in the third trimester	22	1.50%
Cardiac or Urinary malformations in the second or third trimester	28	1.90%
Cardiac or Urinary malformations post-delivery	67	4.60%
Cardiac or Urinary malformations in the first trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the second trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations in the third trimester (2+ codes)	0	0.00%

Table 1n. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	*****	*****
Cardiac or Urinary malformations post-delivery (2+ codes)	27	1.80%
Any non-cardiac/urinary malformations in the first trimester	0	0.00%
Any non-cardiac/urinary malformations in the second trimester	*****	*****
Any non-cardiac/urinary malformations in the third trimester	*****	*****
Any non-cardiac/urinary malformations in the second or third trimester	*****	*****
Any non-cardiac/urinary malformations post-delivery	19	1.30%
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	0	0.00%
Any non-cardiac/urinary malformations post-delivery (2+ codes)	*****	*****
Any malformations in the first trimester	*****	*****
Any malformations in the second trimester	14	1.00%
Any malformations in the third trimester	27	1.80%
Any malformations in the second or third trimester	34	2.30%
Any malformations post-delivery	82	5.60%
Any malformations in the first trimester (2+ codes)	*****	*****
Any malformations in the second trimester (2+ codes)	*****	*****
Any malformations in the third trimester (2+ codes)	*****	*****
Any malformations in the second or third trimester (2+ codes)	*****	*****
Any malformations post-delivery (2+ codes)	34	2.30%
Psychiatric and neurological conditions	575	39.40%
Substance Use Disorder	44	3.00%
Nicotine use	164	11.20%
Diabetes	42	2.90%
Hypertension	76	5.20%
Obesity	125	8.60%
Urinary disease	*****	*****
Obstetric Comorbidity Index	0.8	1.2

Table 1n. Characteristics of Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in up to 130 days before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment, in the Sentinel Distributed Database (SDD) from January 1, 2011 to April 1, 2022¹

Health Characteristics	Number	Percent/ Standard Deviation³
Obstetric Comorbidity Categories		
0	791	54.20%
1-2	575	39.40%
3-4	70	4.80%
5-6	13	0.90%
7-8	*****	*****
9-10	*****	*****
>10	*****	*****
Medical Product Use		
Psychotropic medications	508	34.80%
Antidiabetic medications	34	2.30%
Antihypertensive medications	100	6.80%
Buprenorphine	*****	*****
Insulin	13	0.90%
Methadone	*****	*****
Naloxone	*****	*****
Naltrexone	*****	*****
Opioids	314	21.50%
Suspected teratogens	241	16.50%

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Baseline period in reference to user-defined index date (start of first valid exposed pregnancy resulting in live birth delivery, exposure date, or delivery date).

³Value represents standard deviation where no % follows the value.

⁴Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

⁵Gestational age estimated using a claims-based algorithm, previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP), to identify pregnancies ending in a live birth. ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, were used to calculate the length of the pregnancy episode. Codes had to occur within 7 days of a delivery date in the inpatient setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days.

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

Table 2a. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod								
	First Trimester, 30 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	300,561,029	N/A	300,561,029	N/A	297,013,616	N/A	297,013,616	N/A
Had required coverage type (medical and/or drug coverage)	226,042,894	74,518,135	226,042,894	74,518,135	223,418,419	73,595,197	223,418,419	73,595,197
Enrolled during specified age range	176,433,725	49,609,169	176,433,725	49,609,169	173,947,703	49,470,716	173,947,703	49,470,716
Had requestable medical charts	176,433,725	0	176,433,725	0	173,947,703	0	173,947,703	0
Met demographic requirements (sex, race, and Hispanic origin)	175,960,513	473,212	175,960,513	473,212	173,478,673	469,030	173,478,673	469,030
Members with a valid index event								
Had a live birth delivery claim during the query period	3,676,737	172,283,776	3,676,737	172,283,776	3,581,957	169,896,716	3,581,957	169,896,716
Live birth deliveries with a valid index date								
Total number of live birth deliveries during the query period	4,120,321	N/A	4,120,321	N/A	4,006,653	N/A	4,006,653	N/A
Live birth delivery recorded during specified age range	4,120,321	0	4,120,321	0	4,006,653	0	4,006,653	0
Pregnancy episode recorded during the query period	4,119,043	1,278	4,119,043	1,278	4,005,450	1,203	4,005,450	1,203

Table 2a. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod								
	First Trimester, 30 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	2,294,087	1,824,956	2,294,087	1,824,956	2,222,334	1,783,116	2,222,334	1,783,116
Met inclusion and exclusion criteria ²	55	2,294,032	70	2,294,017	55	2,222,279	70	2,222,264
<i>Evidence of alemtuzumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of delivery</i>	N/A	19,310	N/A	19,310	N/A	18,742	N/A	18,742
<i>Evidence of diroximel fumarate</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of dimethyl fumarate</i>	N/A	*****	N/A	*****	N/A	*****	N/A	*****
<i>Evidence of fingolimod</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of glatiramer acetate</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of beta interferon 1a or 1b</i>	N/A	91	N/A	91	N/A	91	N/A	91
<i>Evidence of mitoxantrone</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of natalizumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of ocrelizumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of PEGylated Interferon</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of siponimod</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of teratogens</i>	N/A	105,431	N/A	105,431	N/A	102,280	N/A	102,280
<i>No evidence of multiple sclerosis (MS)</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of MS and fingolimod</i>	N/A	2,294,027	N/A	2,294,012	N/A	2,222,274	N/A	2,222,259

Table 2a. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod								
	First Trimester, 30 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required post-index follow-up³								
Had sufficient post-index continuous enrollment	*****	*****	*****	*****	39	14	49	19
Number of pregnancy episodes	51	N/A	65	N/A	39	N/A	49	N/A
Final cohort³								
Number of members	49	N/A	63	N/A	37	N/A	47	N/A
Number of non-pregnant matched comparator episodes	0	N/A	0	N/A	0	N/A	0	N/A

Table 2a. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Fingolimod								
	First Trimester, 30 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		45 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting mother-infant linkage requirements³								
Pregnancy episodes met initial cohort eligibility requirements	51	N/A	65	N/A	39	N/A	49	N/A
Medical product of interest recorded during pregnancy episode	51	0	65	0	39	0	49	0
Linked infant met sex requirement	51	0	65	0	39	0	49	0
Linked mother excluded due to prior initiation of other exposure group	51	0	65	0	39	0	49	0
Linked live birth delivery recorded during specified age range	51	0	65	0	39	0	49	0
Linked mother had sufficient pre-index continuous enrollment	51	0	65	0	39	0	49	0
Linked mother met inclusion and exclusion criteria ²	51	0	65	0	39	0	49	0
<i>Evidence of chrom</i>	N/A	0	N/A	0	N/A	0	N/A	0
Restricted to first valid pregnancy episode	51	0	65	0	39	0	49	0

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

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

³Final pregnancy episode and member counts were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population.

Table 2b. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon								
	First Trimester, 30 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	300,561,029	N/A	300,561,029	N/A	297,013,616	N/A	297,013,616	N/A
Had required coverage type (medical and/or drug coverage)	226,042,894	74,518,135	226,042,894	74,518,135	223,418,419	73,595,197	223,418,419	73,595,197
Enrolled during specified age range	176,433,725	49,609,169	176,433,725	49,609,169	173,947,703	49,470,716	173,947,703	49,470,716
Had requestable medical charts	176,433,725	0	176,433,725	0	173,947,703	0	173,947,703	0
Met demographic requirements (sex, race, and Hispanic origin)	175,960,513	473,212	175,960,513	473,212	173,478,673	469,030	173,478,673	469,030
Members with a valid index event								
Had a live birth delivery claim during the query period	3,676,737	172,283,776	3,676,737	172,283,776	3,581,957	169,896,716	3,581,957	169,896,716
Live birth deliveries with a valid index date								
Total number of live birth deliveries during the query period	4,120,321	N/A	4,120,321	N/A	4,006,653	N/A	4,006,653	N/A
Live birth delivery recorded during specified age range	4,120,321	0	4,120,321	0	4,006,653	0	4,006,653	0
Pregnancy episode recorded during the query period	4,119,043	1,278	4,119,043	1,278	4,005,450	1,203	4,005,450	1,203

Table 2b. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon								
	First Trimester, 30 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	2,294,087	1,824,956	2,294,087	1,824,956	2,222,334	1,783,116	2,222,334	1,783,116
Met inclusion and exclusion criteria ²	100	2,293,987	119	2,293,968	99	2,222,235	118	2,222,216
<i>Evidence of alemtuzumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of delivery</i>	N/A	19,310	N/A	19,310	N/A	18,742	N/A	18,742
<i>Evidence of diroximel fumarate</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of dimethyl fumarate</i>	N/A	*****	N/A	*****	N/A	*****	N/A	*****
<i>Evidence of fingolimod</i>	N/A	73	N/A	73	N/A	73	N/A	73
<i>Evidence of glatiramer acetate</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of beta interferon 1a or 1b</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of mitoxantrone</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of natalizumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of ocrelizumab</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of PEGylated Interferon</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of siponimod</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Evidence of teratogens</i>	N/A	105,431	N/A	105,431	N/A	102,280	N/A	102,280
<i>No evidence of multiple sclerosis (MS)</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>No evidence of MS and fingolimod</i>	N/A	2,293,981	N/A	2,293,960	N/A	2,222,229	N/A	2,222,208

Table 2b. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon								
	First Trimester, 30 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required post-index follow-up³								
Had sufficient post-index continuous enrollment	*****	*****	*****	*****	84	15	100	18
Number of pregnancy episodes	98	N/A	116	N/A	84	N/A	100	N/A
Final cohort³								
Number of members	94	N/A	112	N/A	82	N/A	98	N/A
Number of non-pregnant matched comparator episodes	0	N/A	0	N/A	0	N/A	0	N/A

Table 2b. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Interferon								
	First Trimester, 30 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		22 Days Before Estimated Pregnancy Start and in the First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting mother-infant linkage requirements³								
Pregnancy episodes met initial cohort eligibility requirements	98	N/A	116	N/A	84	N/A	100	N/A
Medical product of interest recorded during pregnancy episode	98	0	116	0	84	0	100	0
Linked infant met sex requirement	98	0	116	0	84	0	100	0
Linked mother excluded due to prior initiation of other exposure group	98	0	116	0	84	0	100	0
Linked live birth delivery recorded during specified age range	98	0	116	0	84	0	100	0
Linked mother had sufficient pre-index continuous enrollment	98	0	116	0	84	0	100	0
Linked mother met inclusion and exclusion criteria ²	98	0	116	0	84	0	100	0
<i>Evidence of chrom</i>	N/A	0	N/A	0	N/A	0	N/A	0
Restricted to first valid pregnancy episode	98	0	116	0	84	0	100	0

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

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

³Final pregnancy episode and member counts were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population.

Table 2c. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate				
	First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements				
Enrolled at any point during the query period	300,561,029	N/A	297,013,616	N/A
Had required coverage type (medical and/or drug coverage)	226,042,894	74,518,135	223,418,419	73,595,197
Enrolled during specified age range	176,433,725	49,609,169	173,947,703	49,470,716
Had requestable medical charts	176,433,725	0	173,947,703	0
Met demographic requirements (sex, race, and Hispanic origin)	175,960,513	473,212	173,478,673	469,030
Members with a valid index event				
Had a live birth delivery claim during the query period	3,676,737	172,283,776	3,581,957	169,896,716
Live birth deliveries with a valid index date				
Total number of live birth deliveries during the query period	4,120,321	N/A	4,006,653	N/A
Live birth delivery recorded during specified age range	4,120,321	0	4,006,653	0
Pregnancy episode recorded during the query period	4,119,043	1,278	4,005,450	1,203

Table 2c. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate				
	First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required pre-index history				
Had sufficient pre-index continuous enrollment	2,294,087	1,824,956	2,222,334	1,783,116
Met inclusion and exclusion criteria ²	102	2,293,985	100	2,222,234
<i>Evidence of alemtuzumab</i>	N/A	N/A	N/A	N/A
<i>Evidence of delivery</i>	N/A	19,310	N/A	18,742
<i>Evidence of diroximel fumarate</i>	N/A	N/A	N/A	N/A
<i>Evidence of dimethyl fumarate</i>	N/A	N/A	N/A	N/A
<i>Evidence of fingolimod</i>	N/A	73	N/A	73
<i>Evidence of glatiramer acetate</i>	N/A	N/A	N/A	N/A
<i>Evidence of beta interferon 1a or 1b</i>	N/A	91	N/A	91
<i>Evidence of mitoxantrone</i>	N/A	N/A	N/A	N/A
<i>Evidence of natalizumab</i>	N/A	N/A	N/A	N/A
<i>Evidence of ocrelizumab</i>	N/A	N/A	N/A	N/A
<i>Evidence of PEGylated Interferon</i>	N/A	N/A	N/A	N/A
<i>Evidence of siponimod</i>	N/A	N/A	N/A	N/A
<i>Evidence of teratogens</i>	N/A	105,431	N/A	102,280
<i>No evidence of multiple sclerosis (MS)</i>	N/A	N/A	N/A	N/A
<i>No evidence of MS and fingolimod</i>	N/A	2,293,977	N/A	2,222,226

Table 2c. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate				
	First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required post-index follow-up³				
Had sufficient post-index continuous enrollment	*****	*****	85	15
Number of pregnancy episodes	98	N/A	85	N/A
Final cohort³				
Number of members	95	N/A	82	N/A
Number of non-pregnant matched comparator episodes	0	N/A	0	N/A

Table 2c. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of Dimethyl Fumarate				
	First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment	
	Remaining	Excluded	Remaining	Excluded
Members meeting mother-infant linkage requirements³				
Pregnancy episodes met initial cohort eligibility requirements	98	N/A	85	N/A
Medical product of interest recorded during pregnancy episode	98	0	85	0
Linked infant met sex requirement	98	0	85	0
Linked mother excluded due to prior initiation of other exposure group	98	0	85	0
Linked live birth delivery recorded during specified age range	98	0	85	0
Linked mother had sufficient pre-index continuous enrollment	98	0	85	0
Linked mother met inclusion and exclusion criteria ²	98	0	85	0
<i>Evidence of chrom</i>	N/A	0	N/A	0
Restricted to first valid pregnancy episode	98	0	85	0

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

²Pregnancy episodes can meet multiple inclusion and/or exclusion criteria; therefore, the total number of pregnancy episodes excluded overall may not equal the sum of all pregnancy episode s in each criterion.

³Final pregnancy episode and member counts were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population.

Table 2d. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment								
	First Trimester, 30 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	300,561,029	N/A	300,561,029	N/A	297,013,616	N/A	297,013,616	N/A
Had required coverage type (medical and/or drug coverage)	226,042,894	74,518,135	226,042,894	74,518,135	223,418,419	73,595,197	223,418,419	73,595,197
Enrolled during specified age range	176,433,725	49,609,169	176,433,725	49,609,169	173,947,703	49,470,716	173,947,703	49,470,716
Had requestable medical charts	176,433,725	0	176,433,725	0	173,947,703	0	173,947,703	0
Met demographic requirements (sex, race, and Hispanic origin)	175,960,513	473,212	175,960,513	473,212	173,478,673	469,030	173,478,673	469,030
Members with a valid index event								
Had a live birth delivery claim during the query period	3,676,737	172,283,776	3,676,737	172,283,776	3,581,957	169,896,716	3,581,957	169,896,716
Live birth deliveries with a valid index date								
Total number of live birth deliveries during the query period	4,120,321	N/A	4,120,321	N/A	4,006,653	N/A	4,006,653	N/A
Live birth delivery recorded during specified age range	4,120,321	0	4,120,321	0	4,006,653	0	4,006,653	0
Pregnancy episode recorded during the query period	4,119,043	1,278	4,119,043	1,278	4,005,450	1,203	4,005,450	1,203

Table 2d. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment								
	First Trimester, 30 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required pre-index history								
Had sufficient pre-index continuous enrollment	2,294,087	1,824,956	2,294,087	1,824,956	2,222,334	1,783,116	2,222,334	1,783,116
Met inclusion and exclusion criteria ²	1,848	2,292,239	1,732	2,292,355	1,801	2,220,533	1,695	2,220,639
<i>Evidence of alemtuzumab</i>	N/A	*****	N/A	*****	N/A	*****	N/A	*****
<i>Evidence of delivery</i>	N/A	19,310	N/A	19,310	N/A	18,742	N/A	18,742
<i>Evidence of diroximel fumarate</i>	N/A	0	N/A	0	N/A	0	N/A	0
<i>Evidence of dimethyl fumarate</i>	N/A	126	N/A	127	N/A	123	N/A	124
<i>Evidence of fingolimod</i>	N/A	66	N/A	81	N/A	66	N/A	81
<i>Evidence of glatiramer acetate</i>	N/A	467	N/A	472	N/A	454	N/A	459
<i>Evidence of beta interferon 1a or 1b</i>	N/A	131	N/A	155	N/A	130	N/A	154
<i>Evidence of mitoxantrone</i>	N/A	0	N/A	0	N/A	0	N/A	0
<i>Evidence of natalizumab</i>	N/A	101	N/A	137	N/A	98	N/A	134
<i>Evidence of ocrelizumab</i>	N/A	*****	N/A	63	N/A	*****	N/A	53
<i>Evidence of PEGylated Interferon</i>	N/A	*****	N/A	*****	N/A	*****	N/A	*****
<i>Evidence of siponimod</i>	N/A	*****	N/A	*****	N/A	*****	N/A	*****
<i>Evidence of teratogens</i>	N/A	105,431	N/A	105,431	N/A	102,280	N/A	102,280
<i>No evidence of multiple sclerosis (MS)</i>	N/A	2,291,250	N/A	2,291,250	N/A	2,219,567	N/A	2,219,567
<i>No evidence of MS and fingolimod</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 2d. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment								
	First Trimester, 30 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Pregnancy episodes with required post-index follow-up³								
Had sufficient post-index continuous enrollment	1,800	48	1,687	45	1,563	238	1,475	220
Number of pregnancy episodes	1,800	N/A	1,687	N/A	1,563	N/A	1,475	N/A
Final cohort³								
Number of members	1,709	N/A	1,611	N/A	1,486	N/A	1,410	N/A
Number of non-pregnant matched comparator episodes	0	N/A	0	N/A	0	N/A	0	N/A

Table 2d. Summary of Episode Level Cohort Attrition for Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment in the Sentinel Distributed Database (SDD) from January 1, 2011 to May 31, 2022¹

Pregnancies of Individuals with Multiple Sclerosis (MS) and Evidence of No MS Treatment								
	First Trimester, 30 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester, 30 Days of Post-Delivery Enrollment		First Trimester, 90 Days of Post-Delivery Enrollment		130 Days Before Estimated Pregnancy Start and in the First Trimester	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting mother-infant linkage requirements³								
Pregnancy episodes met initial cohort eligibility requirements	1,800	N/A	1,687	N/A	1,563	N/A	1,475	N/A
Medical product of interest recorded during pregnancy episode	1,800	0	1,687	0	1,563	0	1,475	0
Linked infant met sex requirement	1,800	0	1,687	0	1,563	0	1,475	0
Linked mother excluded due to prior initiation of other exposure group	1,800	0	1,687	0	1,563	0	1,475	0
Linked live birth delivery recorded during specified age range	1,800	0	1,687	0	1,563	0	1,475	0
Linked mother had sufficient pre-index continuous enrollment	1,800	0	1,687	0	1,563	0	1,475	0
Linked mother met inclusion and exclusion criteria ²	1,782	18	1,669	18	1,548	15	1,460	15
<i>Evidence of chrom</i>	N/A	18	N/A	18	N/A	15	N/A	15
Restricted to first valid pregnancy episode	1,782	0	1,669	0	1,548	0	1,460	0

¹Pregnancy is defined as a pregnancy that resulted in a live birth delivery identified using the method specified in the overview section of this report.

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

³Final pregnancy episode and member counts were adjusted post-hoc due to the removal of a single incorrectly linked mother-infant pair from the analytic population.

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (January 23, 2023)

Masked DP ID¹	DP Start Date	DP End Date²	Cohort Selection End Date - 30 Days Post-Index Enrollment	Cohort Selection End Date - 90 Days Post-Index Enrollment
DP01	01/01/2008	12/31/2021	12/01/2021	10/02/2021
DP02	01/01/2014	12/31/2018	12/01/2018	10/02/2018
DP03	01/01/2008	06/30/2022	05/31/2022	04/01/2022
DP04	01/01/2006	02/28/2022	01/29/2022	11/30/2021

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
Dimethyl fumarate	
dimethyl fumarate	Tecfidera
Fingolimod	
fingolimod HCl	Gilenya
Interferon beta	
interferon beta-1a	Avonex
interferon beta-1a/albumin human	Avonex (with albumin)
interferon beta-1a/albumin human	Rebif (with albumin)
interferon beta-1b	Betaseron
interferon beta-1b	Extavia

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

Code	Description	Code Category	Code Type
Interferon beta			
J1825	Injection, interferon beta-1a, 33 mcg	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	Procedure	HCPCS
J1830	Injection interferon beta-1b, 0.25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
Q3025	Injection, interferon beta-1a, 11 mcg for intramuscular use	Procedure	HCPCS
Q3026	Injection, interferon beta-1a, 11 mcg for subcutaneous use	Procedure	HCPCS
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS

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

Generic Name	Brand Name
Teratogens	
BCG live	Theracys
BCG live	Tice BCG
Tositumomab Iodine-131 (with Maltose)	Bexxar 131 Iodine
abemaciclib	Verzenio
abiraterone acetate	Zytiga
abiraterone acetate	abiraterone
abiraterone acetate, submicronized	Yonsa
acalabrutinib	Calquence
ado-trastuzumab emtansine	Kadcyla
afatinib dimaleate	Gilotrif
aldesleukin	Proleukin
alectinib HCl	Alecensa
alitretinoin	Panretin
alpelisib	Piqray
altretamine	Hexalen
anastrozole	Arimidex
anastrozole	anastrozole
anastrozole	anastrozole (bulk)
apalutamide	Erleada
arsenic trioxide	Trisenox
arsenic trioxide	arsenic trioxide
arsenic trioxide	arsenic trioxide (bulk)
asparaginase	Elspar
asparaginase (Erwinia chrysanthemi)	Erwinase
asparaginase (Erwinia chrysanthemi)	Erwinaze
asparaginase Erwinia chrysanthemi (recombinant)-rywn	Rylaze
atezolizumab	Tecentriq
avapritinib	Ayvakit
avelumab	Bavencio
axicabtagene ciloleucel	Yescarta
axitinib	Inlyta
azacitidine	Onureg
azacitidine	Vidaza
azacitidine	azacitidine
belinostat	Beleodaq
bendamustine HCl	Belrapzo
bendamustine HCl	Bendeka
bendamustine HCl	Treanda
bendamustine HCl	bendamustine
bevacizumab	Avastin
bevacizumab	bevacizumab
bevacizumab-awwb	Mvasi
bevacizumab-bvzr	Zirabev
bexarotene	Targetin
bexarotene	bexarotene
bicalutamide	Casodex
bicalutamide	bicalutamide

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

Generic Name	Brand Name
binimetinib	Mektovi
bleomycin sulfate	Bleo 15K
bleomycin sulfate	bleomycin
blinatumomab	Blincyto
bortezomib	Velcade
bortezomib	bortezomib
bosutinib	Bosulif
brentuximab vedotin	Adcetris
brigatinib	Alunbrig
busulfan	Busulfex
busulfan	Myleran
busulfan	busulfan
cabazitaxel	Jevtana
cabozantinib s-malate	Cabometyx
cabozantinib s-malate	Cometriq
calaspargase pegol-mknl	Asparlas
capecitabine	Xeloda
capecitabine	capecitabine
carboplatin	Paraplatin
carboplatin	carboplatin
carfilzomib	Kyprolis
carmustine	BiCNU
carmustine	carmustine
carmustine in polifeprosan 20	Gliadel Wafer
cemiplimab-rwlc	Libtayo
ceritinib	Zykadia
cetuximab	Erbix
chlorambucil	Leukeran
chlorambucil	chlorambucil (bulk)
cisplatin	cisplatin
cisplatin	cisplatin (bulk)
cladribine	Leustatin
cladribine	Mavenclad (10 tablet pack)
cladribine	Mavenclad (4 tablet pack)
cladribine	Mavenclad (5 tablet pack)
cladribine	Mavenclad (6 tablet pack)
cladribine	Mavenclad (7 tablet pack)
cladribine	Mavenclad (8 tablet pack)
cladribine	Mavenclad (9 tablet pack)
cladribine	cladribine
clindamycin phosphate/tretinoin	Veltin
clindamycin phosphate/tretinoin	Ziana
clindamycin phosphate/tretinoin	clindamycin-tretinoin
clofarabine	Clolar
clofarabine	clofarabine
cobimetinib fumarate	Cotellic
copanlisib di-HCl	Aliqopa
crizotinib	Xalkori

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

Generic Name	Brand Name
cromolyn sodium	Crolom
cromolyn sodium	Gastrocrom
cromolyn sodium	Nasal Allergy Symptom Control
cromolyn sodium	Nasal crom
cromolyn sodium	cromolyn
cromolyn sodium	cromolyn (bulk)
cyclophosphamide	cyclophosphamide
cyclophosphamide	cyclophosphamide (bulk)
cytarabine	cytarabine
cytarabine liposome/PF	DepoCyt (PF)
cytarabine/PF	cytarabine (PF)
dabrafenib mesylate	Tafinlar
dacarbazine	dacarbazine
dacomitinib	Vizimpro
dactinomycin	Cosmegen
dactinomycin	dactinomycin
daratumumab	Darzalex
daratumumab-hyaluronidase-fihj	Darzalex Faspro
darolutamide	Nubeqa
dasatinib	Sprycel
daunorubicin HCl	Cerubidine
daunorubicin HCl	daunorubicin
daunorubicin citrate liposomal	DaunoXome
daunorubicin/cytarabine liposomal	Vyxeos
decitabine	Dacogen
decitabine	decitabine
decitabine/cedazuridine	Inqovi
degarelix acetate	Firmagon
degarelix acetate	Firmagon kit w diluent syringe
denileukin diftitox	Ontak
diclofenac sodium/misoprostol	Arthrotec 50
diclofenac sodium/misoprostol	Arthrotec 75
diclofenac sodium/misoprostol	diclofenac-misoprostol
diethylstilbestrol	diethylstilbestrol (bulk)
diluent for cabazitaxel (ethanol)	Diluent For Jevtana
diluent for decitabine (potass ph monobasic,sodium hydrox)	diluent for decitabine
diluent for ixabepilone (castor oil/alcohol)	Diluent for Ixempra (15 mg)
diluent for ixabepilone (castor oil/alcohol)	Diluent for Ixempra (45 mg)
diluent for melphalan (sodium citrate)	diluent for melphalan
diluent for mitomycin (hydroxypropyl,poloxam,polyethyl)	Sterile Hydrogel For Jelmyto
diluent for romidepsin (propylene glycol)	Diluent For Istodax
dinutuximab	Unituxin
docetaxel	Docetaxel
docetaxel	Taxotere
docetaxel	docetaxel
doxorubicin HCl	Adriamycin
doxorubicin HCl	Adriamycin PFS
doxorubicin HCl	doxorubicin

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

Generic Name	Brand Name
doxorubicin HCl pegylated liposomal	Doxil
doxorubicin HCl pegylated liposomal	Lipodox
doxorubicin HCl pegylated liposomal	Lipodox 50
doxorubicin HCl pegylated liposomal	doxorubicin, peg-liposomal
durvalumab	Imfinzi
duvelisib	Copiktra
elotuzumab	Empliciti
enasidenib mesylate	Idhifa
encorafenib	Braftovi
enfortumab vedotin-ejfv	Padcev
entrectinib	Rozlytrek
enzalutamide	Xtandi
epirubicin HCl	Ellence
epirubicin HCl	epirubicin
erdafitinib	Balversa
eribulin mesylate	Halaven
erlotinib HCl	Tarceva
erlotinib HCl	erlotinib
estramustine phosphate sodium	Emcyt
estrogens, conjugated/medroxyprogesterone acetate	Premphase
estrogens, conjugated/medroxyprogesterone acetate	Prempro
etoposide	Toposar
etoposide	etoposide
etoposide	etoposide (bulk)
etoposide phosphate	Etopophos
everolimus	Afinitor
everolimus	Afinitor Disperz
everolimus	Zortress
everolimus	everolimus (antineoplastic)
everolimus	everolimus (immunosuppressive)
exemestane	Aromasin
exemestane	exemestane
fam-trastuzumab deruxtecan-nxki	Enhertu
fedratinib dihydrochloride	Inrebic
floxuridine	floxuridine
floxuridine	floxuridine (bulk)
fludarabine phosphate	Fludara
fludarabine phosphate	Oforta
fludarabine phosphate	fludarabine
fluocinolone acetonide/tretinoin/hydroquinone	Tri-Luma
fluorouracil	Adrucil
fluorouracil	Carac
fluorouracil	Efudex
fluorouracil	Fluoroplex
fluorouracil	Tolak
fluorouracil	fluorouracil
fluorouracil	fluorouracil (bulk)
flutamide	Eulexin

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

Generic Name	Brand Name
flutamide	flutamide
fulvestrant	Faslodex
fulvestrant	fulvestrant
gefitinib	Iressa
gemcitabine HCl	Gemzar
gemcitabine HCl	gemcitabine
gemcitabine HCl in 0.9 % sodium chloride	Infugem
gemtuzumab ozogamicin	Mylotarg
gilteritinib fumarate	Xospata
glasdegib maleate	Daurismo
goserelin acetate	Zoladex
histrelin acetate	Supprelin LA
histrelin acetate	Vantas
hydroquinone/tretinoin/hydrocortisone	Katarya
hydroquinone/tretinoin/hydrocortisone	Kataryaxn
hydroquinone/tretinoin/hydrocortisone	Ketarya
hydroquinone/tretinoin/hydrocortisone	Kevarya
hydroquinone/tretinoin/hydrocortisone	Kutaryaxm
hydroquinone/tretinoin/hydrocortisone	Kutaryaxmpa
hydroquinone/tretinoin/hydrocortisone	Kuvarya
hydroquinone/tretinoin/hydrocortisone	Kuvarye
hydroquinone/tretinoin/hydrocortisone	hydroquin-tretinoin-hydrocort
hydroxyurea	Droxia
hydroxyurea	Hydrea
hydroxyurea	Siklos
hydroxyurea	hydroxyurea
hydroxyurea	hydroxyurea (bulk)
ibrutinib	Imbruvica
idarubicin HCl	Idamycin PFS
idarubicin HCl	idarubicin
idelalisib	Zydelig
ifosfamide	Ifex
ifosfamide	ifosfamide
ifosfamide/mesna	ifosfamide-mesna
imatinib mesylate	Gleevec
imatinib mesylate	imatinib
imiquimod/tretinoin/levocetirizine dihydrochloride	Quihoxvar
imiquimod/tretinoin/levocetirizine dihydrochloride	imiquimod-tretinoin-levocetir
inotuzumab ozogamicin	Besponsa
interferon alfa-2b, recomb.	Intron A
iobenguane iodine-131	Azedra Dosimetric
iobenguane iodine-131	Azedra Therapeutic
ipilimumab	Yervoy
irinotecan HCl	Camptosar
irinotecan HCl	irinotecan
irinotecan liposomal	Onivyde
isotretinoin	Absorica
isotretinoin	Accutane

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

Generic Name	Brand Name
isotretinoin	Amnesteem
isotretinoin	Claravis
isotretinoin	Myorisan
isotretinoin	Sotret
isotretinoin	Zenatane
isotretinoin	isotretinoin
isotretinoin	isotretinoin (bulk)
isotretinoin, micronized	Absorica LD
ivosidenib	Tibsovo
ixabepilone	Ixempra
ixazomib citrate	Ninlaro
kit for prep indium-111/ibritumomab tiuxetan/albumin human	Zevalin (In-111)
kit for prep yttrium-90/ibritumomab tiuxetan/albumin human	Zevalin (Y-90)
lapatinib ditosylate	Tykerb
lapatinib ditosylate	lapatinib
larotrectinib sulfate	Vitrakvi
leflunomide	Arava
leflunomide	leflunomide
lenalidomide	Revlimid
lenvatinib mesylate	Lenvima
letrozole	Femara
letrozole	letrozole
letrozole	letrozole (bulk)
leuprolide acetate	Eligard
leuprolide acetate	Eligard (3 month)
leuprolide acetate	Eligard (4 month)
leuprolide acetate	Eligard (6 month)
leuprolide acetate	Fensolvi
leuprolide acetate	Lupron Depot
leuprolide acetate	Lupron Depot (3 month)
leuprolide acetate	Lupron Depot (4 month)
leuprolide acetate	Lupron Depot (6 Month)
leuprolide acetate	Lupron Depot-Ped
leuprolide acetate	Lupron Depot-Ped (3 month)
leuprolide acetate	leuprolide
leuprolide acetate	leuprolide (bulk)
leuprolide acetate/norethindrone acetate	Lupaneta Pack (1 month)
leuprolide acetate/norethindrone acetate	Lupaneta Pack (3 month)
levamisole HCl	levamisole (bulk)
lithium carbonate	Lithobid
lithium carbonate	lithium carbonate
lithium citrate	lithium citrate
lomustine	CeeNU
lomustine	Gleostine
lomustine	lomustine
lorlatinib	Lorbrena
lutetium Lu 177 dotatate	Lutathera
mechlorethamine HCl	Mustargen

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

Generic Name	Brand Name
mechlorethamine HCl	Valchlor
mechlorethamine HCl	mechlorethamine (bulk)
medroxyprogesterone acetate	Depo-Provera
medroxyprogesterone acetate	Depo-SubQ provera 104
medroxyprogesterone acetate	Provera
medroxyprogesterone acetate	medroxyprogesterone
medroxyprogesterone acetate, micronized	medroxyprogest, ac micro(bulk)
megestrol acetate	Megace
megestrol acetate	Megace ES
megestrol acetate	megestrol
megestrol acetate, micronized	megestrol acetate, micro (bulk)
melphalan	Alkeran
melphalan	melphalan
melphalan HCl	Alkeran (as HCl)
melphalan HCl	melphalan HCl
melphalan HCl/betadex sulfobutyl ether sodium	Evomela
melphalan flufenamide hydrochloride	Pepaxto
mercaptopurine	Purinethol
mercaptopurine	Purixan
mercaptopurine	mercaptopurine
mercaptopurine	mercaptopurine (bulk)
methotrexate	Xatmep
methotrexate	methotrexate (bulk)
methotrexate sodium	Methotrexate (Anti-Rheumatic)
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)
methoxsalen	8-Mop
methoxsalen	Oxsoralen
methoxsalen	Oxsoralen Ultra
methoxsalen	Uvadex
methoxsalen	methoxsalen
methoxsalen	methoxsalen (bulk)
midostaurin	Rydapt
minoxidil/progesterone/tretinoin	minoxidil-progesterone-tretin
misoprostol	Cytotec
misoprostol	misoprostol
mitomycin	Jelmyto
mitomycin	Mitosol
mitomycin	Mutamycin
mitomycin	mitomycin
mitomycin	mitomycin (bulk)
mitotane	Lysodren
mitotane	mitotane (bulk)

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

Generic Name	Brand Name
mogamulizumab-kpkc	Poteligeo
moxetumomab pasudotox-tdfk	Lumoxiti
necitumumab	Portrazza
nelarabine	Arranon
nelarabine	nelarabine
neratinib maleate	Nerlynx
nilotinib HCl	Tasigna
nilutamide	Nilandron
nilutamide	nilutamide
nintedanib esylate	Ofev
niraparib tosylate	Zejula
nivolumab	Opdivo
obinutuzumab	Gazyva
ofatumumab	Arzerra
ofatumumab	Kesimpta Pen
olaparib	Lynparza
olaratumab	Lartruvo
omacetaxine mepesuccinate	Synribo
osimertinib mesylate	Tagrisso
oxaliplatin	Eloxatin
oxaliplatin	oxaliplatin
paclitaxel	paclitaxel
paclitaxel protein-bound	Abraxane
palbociclib	Ibrance
panitumumab	Vectibix
panobinostat lactate	Farydak
pazopanib HCl	Votrient
pegaspargase	Oncaspar
peginterferon alfa-2b	PegIntron
peginterferon alfa-2b	PegIntron Redipen
peginterferon alfa-2b	Sylatron
peginterferon alfa-2b	Sylatron 4-Pack
pembrolizumab	Keytruda
pemetrexed disodium	Alimta
pentostatin	Nipent
pentostatin	pentostatin
pertuzumab	Perjeta
pertuzumab-trastuzumab-hyaluronidase-zzxf	Phesgo
pexidartinib hydrochloride	Turalio
polatuzumab vedotin-piiq	Polivy
pomalidomide	Pomalyst
ponatinib HCl	Iclusig
porfimer sodium	Photofrin
pralatrexate	Folotyn
procarbazine HCl	Matulane
procarbazine HCl	procarbazine HCl (bulk)
radium-223 dichloride	Xofigo
ramucirumab	Cyramza

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

Generic Name	Brand Name
regorafenib	Stivarga
ribociclib succinate	Kisqali
ribociclib succinate/letrozole	Kisqali Femara Co-Pack
rituximab	Rituxan
rituximab-abbs	Truxima
rituximab-arrx	Riabni
rituximab-pvvr	Ruxience
rituximab/hyaluronidase, human recombinant	Rituxan Hycela
romidepsin	Istodax
romidepsin	romidepsin
ropeginterferon alfa-2b-njft	Besremi
rucaparib camsylate	Rubraca
ruxolitinib phosphate	Jakafi
ruxolitinib phosphate	Opzelura
samarium Sm 153 lexidronam	Quadramet
selinexor	Xpovio
siltuximab	Sylvant
sipuleucel-T/lactated ringers solution	Provenge
sodium iodide-131	Hicon
sodium iodide-131	sodium iodide-131
sonidegib phosphate	Odomzo
sorafenib tosylate	Nexavar
stabilizer for blinatumomab	IV Sol Stabilizer for Blincyto
stabilizer for moxetumomab pasudotox-tdfk	Lumoxiti IV Soln Stabilizer
streptozocin	Zanosar
strontium-89 chloride	Metastron
strontium-89 chloride	strontium-89 chloride
sunitinib malate	Sutent
sunitinib malate	sunitinib
tagraxofusp-erzs	Elzonris
talazoparib tosylate	Talzenna
talimogene laherparepvec	Imlygic
tamoxifen citrate	Soltamox
tamoxifen citrate	tamoxifen
tamoxifen citrate	tamoxifen (bulk)
tazemetostat hydrobromide	Tazverik
temozolomide	Temodar
temozolomide	temozolomide
temsirolimus	Torisel
temsirolimus	temsirolimus
teniposide	Vumon
teniposide	teniposide
teriflunomide	Aubagio
thalidomide	Thalomid
thioguanine	Tabloid
thioguanine	thioguanine (bulk)
thiotepa	Tepadina
thiotepa	thiotepa

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

Generic Name	Brand Name
thiotepa	thiotepa (bulk)
tisagenlecleucel	Kymriah
topiramate	Qudexy XR
topiramate	Topamax
topiramate	Topiragen
topiramate	Trokendi XR
topiramate	topiramate
topotecan HCl	Hycamtin
topotecan HCl	topotecan
toremifene citrate	Fareston
toremifene citrate	toremifene
tositumomab (with maltose)	Bexxar Dosimetric
tositumomab (with maltose)	Bexxar Therapeutic
trabectedin	Yondelis
trametinib dimethyl sulfoxide	Mekinist
trastuzumab	Herceptin
trastuzumab-anns	Kanjinti
trastuzumab-dkst	Ogivri
trastuzumab-dttb	Ontruzant
trastuzumab-hyaluronidase-oysk	Herceptin Hylecta
trastuzumab-pkrb	Herzuma
trastuzumab-qyyp	Trazimera
tretinoin	Altreno
tretinoin	Atralin
tretinoin	Avita
tretinoin	Retin-A
tretinoin	Retinoic Acid
tretinoin	TRETIN-X
tretinoin	Tretinoin Acid
tretinoin	tretinoin
tretinoin	tretinoin (antineoplastic)
tretinoin	tretinoin (bulk)
tretinoin microspheres	Retin-A Micro
tretinoin microspheres	Retin-A Micro Pump
tretinoin microspheres	tretinoin microspheres
tretinoin/benzoyl peroxide/clindamycin phosphate/niacinamide	tretinoin-benzoyl-clinda-niac
tretinoin/clindamycin phosphate/niacinamide	Tardeoxia
tretinoin/clindamycin phosphate/niacinamide	tretinoin-clindamycin-niacin
tretinoin/clindamycin phosphate/spironolactone/niacinamide	tretinoin-clinda-spiron-niacin
tretinoin/emollient base	Refissa
tretinoin/emollient base	Renova
tretinoin/emollient base	tretinoin (emollient)
tretinoin/emollient combination no.9/skin cleanser no.1	TRETIN-X Cream Kit
tretinoin/emollient combination no.9/skin cleanser no.1/gel	TRETIN-X (gel)
tretinoin/hyaluronate sodium/niacinamide	Oxiatar
tretinoin/hyaluronate sodium/niacinamide	Oxiavarry
tretinoin/hyaluronate sodium/niacinamide	Oxiazar

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

Generic Name	Brand Name
tretinoin/hyaluronate sodium/niacinamide	tretinoin-hyaluronate-niacin
tretinoin/menthol/zinc oxide/silicone, adhesive	Dermapak Plus
tretinoin/mequinol	Solage
tretinoin/niacinamide	Taroxia
tretinoin/niacinamide	Varoxia
tretinoin/niacinamide	tretinoin-niacinamide
tretinoin/spironolactone/niacinamide	Tardimaxia
tretinoin/spironolactone/niacinamide	Vardimaxia
tretinoin/spironolactone/niacinamide	tretinoin-spironolact-niacin
trifluridine/tipiracil HCl	Lonsurf
triptorelin pamoate	Trelstar
triptorelin pamoate	Triptodur
valrubicin	Valstar
valrubicin	valrubicin
vandetanib	Caprelsa
vandetanib	vandetanib
vemurafenib	Zelboraf
venetoclax	Venclexta
venetoclax	Venclexta Starting Pack
vinblastine sulfate	vinblastine
vincristine sulfate	Vincasar PFS
vincristine sulfate	vincristine
vincristine sulfate liposomal	Marqibo
vinorelbine tartrate	Navelbine
vinorelbine tartrate	vinorelbine
vismodegib	Erivedge
vorinostat	Zolinza
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	warfarin
zanubrutinib	Brukinsa
ziv-aflibercept	Zaltrap
Alemtuzumab	
alemtuzumab	Campath
alemtuzumab	Lemtrada
Dimethyl fumarate	
dimethyl fumarate	Tecfidera
Diroximel fumarate	
diroximel fumarate	Vumerity
Fingolimod	
fingolimod HCl	Gilenya
Glatiramer	
glatiramer acetate	Copaxone
glatiramer acetate	Glatopa
glatiramer acetate	glatiramer
Interferon beta	
interferon beta-1a	Avonex
interferon beta-1a/albumin human	Avonex (with albumin)

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

Generic Name	Brand Name
interferon beta-1a/albumin human	Rebif (with albumin)
interferon beta-1b	Betaseron
interferon beta-1b	Extavia
Mitoxantrone	
mitoxantrone HCl	Novantrone
mitoxantrone HCl	mitoxantrone
Natalizumab	
natalizumab	Tysabri
Ocrelizumab	
ocrelizumab	Ocrevus
Peg Interferon Beta 1a	
peginterferon beta-1a	Plegridy
Siponimod	
siponimod	Mayzent
siponimod	Mayzent Starter Pack

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

Code	Description	Code Category	Code Type
Multiple sclerosis (MS)			
340	Multiple sclerosis	Diagnosis	ICD-9-CM
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
Chromosomal abnormalities			
758.0	Down's syndrome	Diagnosis	ICD-9-CM
758.1	Patau's syndrome	Diagnosis	ICD-9-CM
758.2	Edwards' syndrome	Diagnosis	ICD-9-CM
758.3	Autosomal deletion syndromes	Diagnosis	ICD-9-CM
758.31	Cri-du-chat syndrome	Diagnosis	ICD-9-CM
758.32	Velo-cardio-facial syndrome	Diagnosis	ICD-9-CM
758.33	Autosomal deletion syndromes, other microdeletions	Diagnosis	ICD-9-CM
758.39	Autosomal deletion syndromes, other autosomal deletions	Diagnosis	ICD-9-CM
758.4	Balanced autosomal translocation in normal individual	Diagnosis	ICD-9-CM
758.5	Other conditions due to autosomal anomalies	Diagnosis	ICD-9-CM
758.6	Gonadal dysgenesis	Diagnosis	ICD-9-CM
758.7	Klinefelter's syndrome	Diagnosis	ICD-9-CM
758.8	Other conditions due to chromosome anomalies	Diagnosis	ICD-9-CM
758.81	Other conditions due to sex chromosome anomalies	Diagnosis	ICD-9-CM
758.89	Other conditions due to chromosome anomalies	Diagnosis	ICD-9-CM
758.9	Conditions due to anomaly of unspecified chromosome	Diagnosis	ICD-9-CM
759.81	Prader-Willi syndrome	Diagnosis	ICD-9-CM
759.82	Marfan's syndrome	Diagnosis	ICD-9-CM
759.83	Fragile X syndrome	Diagnosis	ICD-9-CM
Q87.1	Congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q87.11	Prader-Willi syndrome	Diagnosis	ICD-10-CM
Q87.40	Marfan's syndrome, unspecified	Diagnosis	ICD-10-CM
Q87.410	Marfan's syndrome with aortic dilation	Diagnosis	ICD-10-CM
Q87.418	Marfan's syndrome with other cardiovascular manifestations	Diagnosis	ICD-10-CM
Q87.42	Marfan's syndrome with ocular manifestations	Diagnosis	ICD-10-CM
Q87.43	Marfan's syndrome with skeletal manifestation	Diagnosis	ICD-10-CM
Q87.81	Alport syndrome	Diagnosis	ICD-10-CM
Q87.82	Arterial tortuosity syndrome	Diagnosis	ICD-10-CM
Q90.0	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.1	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.2	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q90.9	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q91.0	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.1	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.2	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q91.3	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q91.4	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.5	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.6	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q91.7	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q92.0	Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q92.1	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q92.2	Partial trisomy	Diagnosis	ICD-10-CM
Q92.5	Duplications with other complex rearrangements	Diagnosis	ICD-10-CM
Q92.6	Marker chromosomes	Diagnosis	ICD-10-CM
Q92.61	Marker chromosomes in normal individual	Diagnosis	ICD-10-CM
Q92.62	Marker chromosomes in abnormal individual	Diagnosis	ICD-10-CM
Q92.7	Triploidy and polyploidy	Diagnosis	ICD-10-CM
Q92.8	Other specified trisomies and partial trisomies of autosomes	Diagnosis	ICD-10-CM
Q92.9	Trisomy and partial trisomy of autosomes, unspecified	Diagnosis	ICD-10-CM
Q93.0	Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.1	Whole chromosome monosomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q93.2	Chromosome replaced with ring, dicentric or isochromosome	Diagnosis	ICD-10-CM
Q93.3	Deletion of short arm of chromosome 4	Diagnosis	ICD-10-CM
Q93.4	Deletion of short arm of chromosome 5	Diagnosis	ICD-10-CM
Q93.5	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.51	Angelman syndrome	Diagnosis	ICD-10-CM
Q93.59	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q93.7	Deletions with other complex rearrangements	Diagnosis	ICD-10-CM
Q93.8	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q93.81	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q93.82	Williams syndrome	Diagnosis	ICD-10-CM
Q93.88	Other microdeletions	Diagnosis	ICD-10-CM
Q93.89	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q93.9	Deletion from autosomes, unspecified	Diagnosis	ICD-10-CM
Q95.0	Balanced translocation and insertion in normal individual	Diagnosis	ICD-10-CM
Q95.1	Chromosome inversion in normal individual	Diagnosis	ICD-10-CM
Q95.2	Balanced autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM
Q95.3	Balanced sex/autosomal rearrangement in abnormal individual	Diagnosis	ICD-10-CM
Q95.5	Individual with autosomal fragile site	Diagnosis	ICD-10-CM
Q95.8	Other balanced rearrangements and structural markers	Diagnosis	ICD-10-CM
Q95.9	Balanced rearrangement and structural marker, unspecified	Diagnosis	ICD-10-CM
Q96.0	Karyotype 45, X	Diagnosis	ICD-10-CM
Q96.1	Karyotype 46, X iso (Xq)	Diagnosis	ICD-10-CM
Q96.2	Karyotype 46, X with abnormal sex chromosome, except iso (Xq)	Diagnosis	ICD-10-CM
Q96.3	Mosaicism, 45, X/46, XX or XY	Diagnosis	ICD-10-CM
Q96.4	Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome	Diagnosis	ICD-10-CM
Q96.8	Other variants of Turner's syndrome	Diagnosis	ICD-10-CM
Q96.9	Turner's syndrome, unspecified	Diagnosis	ICD-10-CM
Q97.0	Karyotype 47, XXX	Diagnosis	ICD-10-CM
Q97.1	Female with more than three X chromosomes	Diagnosis	ICD-10-CM
Q97.2	Mosaicism, lines with various numbers of X chromosomes	Diagnosis	ICD-10-CM
Q97.3	Female with 46, XY karyotype	Diagnosis	ICD-10-CM
Q97.8	Other specified sex chromosome abnormalities, female phenotype	Diagnosis	ICD-10-CM
Q97.9	Sex chromosome abnormality, female phenotype, unspecified	Diagnosis	ICD-10-CM
Q98.0	Klinefelter syndrome karyotype 47, XXY	Diagnosis	ICD-10-CM
Q98.1	Klinefelter syndrome, male with more than two X chromosomes	Diagnosis	ICD-10-CM
Q98.3	Other male with 46, XX karyotype	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q98.4	Klinefelter syndrome, unspecified	Diagnosis	ICD-10-CM
Q98.5	Karyotype 47, XYY	Diagnosis	ICD-10-CM
Q98.6	Male with structurally abnormal sex chromosome	Diagnosis	ICD-10-CM
Q98.7	Male with sex chromosome mosaicism	Diagnosis	ICD-10-CM
Q98.8	Other specified sex chromosome abnormalities, male phenotype	Diagnosis	ICD-10-CM
Q98.9	Sex chromosome abnormality, male phenotype, unspecified	Diagnosis	ICD-10-CM
Q99.0	Chimera 46, XX/46, XY	Diagnosis	ICD-10-CM
Q99.1	46, XX true hermaphrodite	Diagnosis	ICD-10-CM
Q99.2	Fragile X chromosome	Diagnosis	ICD-10-CM
Q99.8	Other specified chromosome abnormalities	Diagnosis	ICD-10-CM
Q99.9	Chromosomal abnormality, unspecified	Diagnosis	ICD-10-CM
Antineoplastic			
A9513	Lutetium Lu 177, dotatate, therapeutic, 1 mCi	Procedure	HCPCS
A9600	Supply of therapeutic radiopharmaceutical, strontium-89 chloride, per mci	Procedure	HCPCS
A9604	Samarium Sm-153 lexidronam, therapeutic, per treatment dose, up to 150 mCi	Procedure	HCPCS
A9605	Supply of therapeutic radiopharmaceutical, samarium Sm 153 lexidronam, 50 mCi	Procedure	HCPCS
C9021	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
C9024	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
C9025	Injection, ramucirumab, 5 mg	Procedure	HCPCS
C9027	Injection, pembrolizumab, 1 mg	Procedure	HCPCS
C9028	Injection, inotuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
C9031	Lutetium Lu 177, dotatate, therapeutic, 1 mCi	Procedure	HCPCS
C9038	Injection, mogamulizumab-kpkc, 1 mg	Procedure	HCPCS
C9042	Injection, bendamustine HCl (Belrapzo), 1 mg	Procedure	HCPCS
C9043	Injection, levoleucovorin, 1 mg	Procedure	HCPCS
C9044	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
C9045	Injection, moxetumomab pasudotox-tdfk, 0.01 mg	Procedure	HCPCS
C9049	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
C9062	Injection, daratumumab 10 mg and hyaluronidase-fihj	Procedure	HCPCS
C9064	Mitomycin pyelocalyceal instillation, 1 mg	Procedure	HCPCS
C9065	Injection, romidepsin, non-lyophilized (e.g. liquid), 1 mg	Procedure	HCPCS
C9069	Injection, belantamab mafodotin-blmf, 0.5 mg	Procedure	HCPCS
C9070	Injection, tafasitamab-cxix, 2 mg	Procedure	HCPCS
C9080	Injection, melphalan flufenamide HCl, 1 mg	Procedure	HCPCS
C9082	Injection, dostarlimab-gxly, 100 mg	Procedure	HCPCS
C9131	Injection, ado-trastuzumab emtansine, 1 mg	Procedure	HCPCS
C9257	Injection, bevacizumab, 0.25 mg	Procedure	HCPCS
C9259	Injection, pralatrexate, 1 mg	Procedure	HCPCS
C9260	Injection, ofatumumab, 10 mg	Procedure	HCPCS
C9262	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
C9265	Injection, romidepsin, 1 mg	Procedure	HCPCS
C9276	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
C9280	Injection, eribulin mesylate, 1 mg	Procedure	HCPCS
C9284	Injection, ipilimumab, 1 mg	Procedure	HCPCS
C9287	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
C9289	Injection, asparaginase Erwinia chrysanthemi, 1,000 IU	Procedure	HCPCS

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Code	Description	Code Category	Code Type
C9291	Injection, aflibercept, 2 mg vial	Procedure	HCPCS
C9292	Injection, pertuzumab, 10 mg	Procedure	HCPCS
C9293	Injection, glucarpidase, 10 units	Procedure	HCPCS
C9295	Injection, carfilzomib, 1 mg	Procedure	HCPCS
C9296	Injection, ziv-aflibercept, 1 mg	Procedure	HCPCS
C9297	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
C9442	Injection, belinostat, 10 mg	Procedure	HCPCS
C9449	Injection, blinatumomab, 1 mcg	Procedure	HCPCS
C9453	Injection, nivolumab, 1 mg	Procedure	HCPCS
C9455	Injection, siltuximab, 10 mg	Procedure	HCPCS
C9467	Injection, rituximab and hyaluronidase, 10 mg	Procedure	HCPCS
C9472	Injection, talimogene laherparepvec, 1 million plaque forming units (PFU)	Procedure	HCPCS
C9475	Injection, necitumumab, 1 mg	Procedure	HCPCS
C9476	Injection, daratumumab, 10 mg	Procedure	HCPCS
C9477	Injection, elotuzumab, 1 mg	Procedure	HCPCS
C9480	Injection, trabectedin, 0.1 mg	Procedure	HCPCS
C9483	Injection, atezolizumab, 10 mg	Procedure	HCPCS
C9485	Injection, olaratumab, 10 mg	Procedure	HCPCS
C9491	Injection, avelumab, 10 mg	Procedure	HCPCS
C9492	Injection, durvalumab, 10 mg	Procedure	HCPCS
G9835	Trastuzumab administered within 12 months of diagnosis	Procedure	HCPCS
J0178	Injection, aflibercept, 1 mg	Procedure	HCPCS
J0202	Injection, alemtuzumab, 1 mg	Procedure	HCPCS
J0594	Injection, busulfan, 1 mg	Procedure	HCPCS
J0640	Injection, leucovorin calcium, per 50 mg	Procedure	HCPCS
J0641	Injection, levoleucovorin, not otherwise specified, 0.5 mg	Procedure	HCPCS
J0642	Injection, levoleucovorin (Khapzory), 0.5 mg	Procedure	HCPCS
J0894	Injection, decitabine, 1 mg	Procedure	HCPCS
J1050	Injection, medroxyprogesterone acetate, 1 mg	Procedure	HCPCS
J1051	Injection, medroxyprogesterone acetate, 50 mg	Procedure	HCPCS
J1055	Injection, medroxyprogesterone acetate for contraceptive use, 150 mg	Procedure	HCPCS
J1056	Injection, medroxyprogesterone acetate/estradiol cypionate, 5 mg/25 mg	Procedure	HCPCS
J1675	Injection, histrelin acetate, 10 mcg	Procedure	HCPCS
J1950	Injection, leuprolide acetate (for depot suspension), per 3.75 mg	Procedure	HCPCS
J1951	Injection, leuprolide acetate for depot suspension (Fensolvi), 0.25 mg	Procedure	HCPCS
J2860	Injection, siltuximab, 10 mg	Procedure	HCPCS
J3315	Injection, triptorelin pamoate, 3.75 mg	Procedure	HCPCS
J7308	Aminolevulinic acid HCl for topical administration, 20%, single unit dosage form (354 mg)	Procedure	HCPCS
J7315	Mitomycin, ophthalmic, 0.2 mg	Procedure	HCPCS
J7345	Aminolevulinic acid HCl for topical administration, 10% gel, 10 mg	Procedure	HCPCS
J7527	Everolimus, oral, 0.25 mg	Procedure	HCPCS
J7631	Cromolyn sodium, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, per 10 mg	Procedure	HCPCS
J7632	Cromolyn sodium, inhalation solution, compounded product, administered through DME, unit dose form, per 10 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J8510	Busulfan; oral, 2 mg	Procedure	HCPCS
J8520	Capecitabine, oral, 150 mg	Procedure	HCPCS
J8521	Capecitabine, oral, 500 mg	Procedure	HCPCS
J8530	Cyclophosphamide, oral, 25 mg	Procedure	HCPCS
J8560	Etoposide, oral, 50 mg	Procedure	HCPCS
J8561	Everolimus, oral, 0.25 mg	Procedure	HCPCS
J8562	Fludarabine phosphate, oral, 10 mg	Procedure	HCPCS
J8565	Gefitinib, oral, 250 mg	Procedure	HCPCS
J8600	Melphalan, oral 2 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J8700	Temozolomide, oral, 5 mg	Procedure	HCPCS
J9000	Injection, doxorubicin HCl, 10 mg	Procedure	HCPCS
J9001	Injection, doxorubicin HCl, all lipid formulations, 10 mg	Procedure	HCPCS
J9010	Injection, alemtuzumab, 10 mg	Procedure	HCPCS
J9015	Injection, aldesleukin, per single use vial	Procedure	HCPCS
J9017	Injection, arsenic trioxide, 1 mg	Procedure	HCPCS
J9019	Injection, asparaginase (Erwinaze), 1,000 IU	Procedure	HCPCS
J9020	Injection, asparaginase, not otherwise specified, 10,000 units	Procedure	HCPCS
J9022	Injection, atezolizumab, 10 mg	Procedure	HCPCS
J9023	Injection, avelumab, 10 mg	Procedure	HCPCS
J9025	Injection, azacitidine, 1 mg	Procedure	HCPCS
J9027	Injection, clofarabine, 1 mg	Procedure	HCPCS
J9030	BCG live intravesical instillation, 1 mg	Procedure	HCPCS
J9032	Injection, belinostat, 10 mg	Procedure	HCPCS
J9033	Injection, bendamustine HCl (Treanda), 1 mg	Procedure	HCPCS
J9034	Injection, bendamustine HCl (Bendeka), 1 mg	Procedure	HCPCS
J9035	Injection, bevacizumab, 10 mg	Procedure	HCPCS
J9037	Injection, belantamab mafodotin-blmf, 0.5 mg	Procedure	HCPCS
J9039	Injection, blinatumomab, 1 mcg	Procedure	HCPCS
J9040	Injection, bleomycin sulfate, 15 units	Procedure	HCPCS
J9041	Injection, bortezomib (Velcade), 0.1 mg	Procedure	HCPCS
J9042	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
J9043	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
J9044	Injection, bortezomib, not otherwise specified, 0.1 mg	Procedure	HCPCS
J9045	Injection, carboplatin, 50 mg	Procedure	HCPCS
J9047	Injection, carfilzomib, 1 mg	Procedure	HCPCS
J9050	Injection, carmustine, 100 mg	Procedure	HCPCS
J9055	Injection, cetuximab, 10 mg	Procedure	HCPCS
J9060	Injection, cisplatin, powder or solution, 10 mg	Procedure	HCPCS
J9062	Cisplatin, 50 mg	Procedure	HCPCS
J9065	Injection, cladribine, per 1 mg	Procedure	HCPCS
J9070	Cyclophosphamide, 100 mg	Procedure	HCPCS
J9080	Cyclophosphamide, 200 mg	Procedure	HCPCS
J9090	Cyclophosphamide, 500 mg	Procedure	HCPCS
J9091	Cyclophosphamide, 1 g	Procedure	HCPCS
J9092	Cyclophosphamide, 2 g	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J9093	Cyclophosphamide, lyophilized, 100 mg	Procedure	HCPCS
J9094	Cyclophosphamide, lyophilized, 200 mg	Procedure	HCPCS
J9095	Cyclophosphamide, lyophilized, 500 mg	Procedure	HCPCS
J9096	Cyclophosphamide, lyophilized, 1 g	Procedure	HCPCS
J9097	Cyclophosphamide, lyophilized, 2 g	Procedure	HCPCS
J9098	Injection, cytarabine liposome, 10 mg	Procedure	HCPCS
J9100	Cytarabine, 100 mg	Procedure	HCPCS
J9110	Injection, cytarabine, 500 mg	Procedure	HCPCS
J9118	Injection, calaspargase pegol-mknl, 10 units	Procedure	HCPCS
J9119	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
J9120	Injection, dactinomycin, 0.5 mg	Procedure	HCPCS
J9130	Dacarbazine, 100 mg	Procedure	HCPCS
J9140	Dacarbazine, 200 mg	Procedure	HCPCS
J9144	Injection, daratumumab, 10 mg and hyaluronidase-fihj	Procedure	HCPCS
J9145	Injection, daratumumab, 10 mg	Procedure	HCPCS
J9151	Injection, daunorubicin citrate, liposomal formulation, 10 mg	Procedure	HCPCS
J9153	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
J9160	Injection, denileukin diftitox, 300 mcg	Procedure	HCPCS
J9171	Injection, docetaxel, 1 mg	Procedure	HCPCS
J9173	Injection, durvalumab, 10 mg	Procedure	HCPCS
J9176	Injection, elotuzumab, 1 mg	Procedure	HCPCS
J9177	Injection, enfortumab vedotin-ejfv, 0.25 mg	Procedure	HCPCS
J9178	Injection, epirubicin HCl, 2 mg	Procedure	HCPCS
J9179	Injection, eribulin mesylate, 0.1 mg	Procedure	HCPCS
J9181	Injection, etoposide, 10 mg	Procedure	HCPCS
J9185	Injection, fludarabine phosphate, 50 mg	Procedure	HCPCS
J9190	Injection, fluorouracil, 500 mg	Procedure	HCPCS
J9199	Injection, gemcitabine HCl (Infugem), 200 mg	Procedure	HCPCS
J9200	Floxuridine, 500 mg	Procedure	HCPCS
J9201	Injection, gemcitabine HCl, not otherwise specified, 200 mg	Procedure	HCPCS
J9202	Goserelin acetate implant, per 3.6 mg	Procedure	HCPCS
J9203	Injection, gemtuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9204	Injection, mogamulizumab-kpkc, 1 mg	Procedure	HCPCS
J9207	Injection, ixabepilone, 1 mg	Procedure	HCPCS
J9208	Injection, ifosfamide, 1 g	Procedure	HCPCS
J9209	Injection, mesna, 200 mg	Procedure	HCPCS
J9211	Idarubicin HCl, 5 mg	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9217	Leuprolide acetate (for depot suspension), 7.5 mg	Procedure	HCPCS
J9218	Leuprolide acetate, per 1 mg	Procedure	HCPCS
J9219	Leuprolide acetate implant, 65 mg	Procedure	HCPCS
J9223	Injection, lurbinectedin, 0.1 mg	Procedure	HCPCS
J9227	Injection, isatuximab-irfc, 10 mg	Procedure	HCPCS
J9228	Injection, ipilimumab, 1 mg	Procedure	HCPCS
J9229	Injection, inotuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9230	Injection, mechlorethamine HCl, (nitrogen mustard), 10 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J9245	Injection, melphalan hydrochloride, not otherwise specified, 50 mg	Procedure	HCPCS
J9246	Injection, melphalan (Evomela), 1 mg	Procedure	HCPCS
J9247	Injection, melphalan flufenamide, 1 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
J9261	Injection, nelarabine, 50 mg	Procedure	HCPCS
J9262	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
J9263	Injection, oxaliplatin, 0.5 mg	Procedure	HCPCS
J9264	Injection, paclitaxel protein-bound particles, 1 mg	Procedure	HCPCS
J9265	Injection, paclitaxel, 30 mg	Procedure	HCPCS
J9266	Injection, pegaspargase, per single dose vial	Procedure	HCPCS
J9267	Injection, paclitaxel, 1 mg	Procedure	HCPCS
J9268	Pentostatin, per 10 mg	Procedure	HCPCS
J9269	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
J9270	Plicamycin, 2.5 mg	Procedure	HCPCS
J9271	Injection, pembrolizumab, 1 mg	Procedure	HCPCS
J9280	Mitomycin, 5 mg	Procedure	HCPCS
J9281	Mitomycin pyelocalyceal instillation, 1 mg	Procedure	HCPCS
J9285	Injection, olaratumab, 10 mg	Procedure	HCPCS
J9290	Mitomycin, 20 mg	Procedure	HCPCS
J9291	Mitomycin, 40 mg	Procedure	HCPCS
J9293	Injection, mitoxantrone HCl, per 5 mg	Procedure	HCPCS
J9295	Injection, necitumumab, 1 mg	Procedure	HCPCS
J9299	Injection, nivolumab, 1 mg	Procedure	HCPCS
J9300	Injection, gemtuzumab ozogamicin, 5 mg	Procedure	HCPCS
J9301	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
J9302	Injection, ofatumumab, 10 mg	Procedure	HCPCS
J9303	Injection, panitumumab, 10 mg	Procedure	HCPCS
J9306	Injection, pertuzumab, 1 mg	Procedure	HCPCS
J9307	Injection, pralatrexate, 1 mg	Procedure	HCPCS
J9308	Injection, ramucirumab, 5 mg	Procedure	HCPCS
J9309	Injection, polatuzumab vedotin-piiq, 1 mg	Procedure	HCPCS
J9310	Injection, rituximab, 100 mg	Procedure	HCPCS
J9311	Injection, rituximab 10 mg and hyaluronidase	Procedure	HCPCS
J9312	Injection, rituximab, 10 mg	Procedure	HCPCS
J9313	Injection, moxetumomab pasudotox-tdfk, 0.01 mg	Procedure	HCPCS
J9315	Injection, romidepsin, 1 mg	Procedure	HCPCS
J9316	Injection, pertuzumab, trastuzumab, and hyaluronidase-zzxf, per 10 mg	Procedure	HCPCS
J9318	Injection, romidepsin, nonlyophilized, 0.1 mg	Procedure	HCPCS
J9319	Injection, romidepsin, lyophilized, 0.1 mg	Procedure	HCPCS
J9320	Streptozocin, 1 g	Procedure	HCPCS
J9325	Injection, talimogene laherparepvec, per 1 million plaque forming units	Procedure	HCPCS
J9328	Injection, temozolomide, 1 mg	Procedure	HCPCS
J9330	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9340	Thiotepa, 15 mg	Procedure	HCPCS
J9349	Injection, tafasitamab-cxix, 2 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J9352	Injection, trabectedin, 0.1 mg	Procedure	HCPCS
J9354	Injection, ado-trastuzumab emtansine, 1 mg	Procedure	HCPCS
J9355	Injection, trastuzumab, 10 mg	Procedure	HCPCS
J9356	Injection, trastuzumab, 10 mg and hyaluronidase-oysk	Procedure	HCPCS
J9357	Injection, valrubicin, intravesical, 200 mg	Procedure	HCPCS
J9358	Injection, fam-trastuzumab deruxtecan-nxki, 1 mg	Procedure	HCPCS
J9360	Injection, vinblastine sulfate, 1 mg	Procedure	HCPCS
J9370	Vincristine sulfate, 1 mg	Procedure	HCPCS
J9371	Injection, vincristine sulfate liposome, 1 mg	Procedure	HCPCS
J9375	Vincristine sulfate, 2 mg	Procedure	HCPCS
J9380	Vincristine sulfate, 5 mg	Procedure	HCPCS
J9390	Vinorelbine tartrate, per 10 mg	Procedure	HCPCS
J9395	Injection, fulvestrant, 25 mg	Procedure	HCPCS
J9400	Injection, ziv-aflibercept, 1 mg	Procedure	HCPCS
J9600	Porfimer sodium, 75 mg	Procedure	HCPCS
Q2017	Injection, teniposide, 50 mg	Procedure	HCPCS
Q2025	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
Q2040	Tisagenlecleucel, up to 250 million CAR-positive viable T cells, including leukapheresis and dose preparation procedures, per infusion	Procedure	HCPCS
Q2041	Axicabtagene ciloleucel, up to 200 million autologous anti-CD19 CAR positive T cells, including leukapheresis and dose preparation procedures, per therapeutic dose	Procedure	HCPCS
Q2042	Tisagenlecleucel, up to 600 million CAR-positive viable T cells, including leukapheresis and dose preparation procedures, per therapeutic dose	Procedure	HCPCS
Q2046	Injection, aflibercept, 1 mg	Procedure	HCPCS
Q2049	Injection, doxorubicin HCl, liposomal, imported Lipodox, 10 mg	Procedure	HCPCS
Q2050	Injection, doxorubicin HCl, liposomal, not otherwise specified, 10 mg	Procedure	HCPCS
Q5107	Injection, bevacizumab-awwb, biosimilar, (Mvasi), 10 mg	Procedure	HCPCS
Q5112	Injection, trastuzumab-dttb, biosimilar, (Ontruzant), 10 mg	Procedure	HCPCS
Q5113	Injection, trastuzumab-pkrb, biosimilar, (Herzuma), 10 mg	Procedure	HCPCS
Q5114	Injection, Trastuzumab-dkst, biosimilar, (Ogivri), 10 mg	Procedure	HCPCS
Q5115	Injection, rituximab-abbs, biosimilar, (Truxima), 10 mg	Procedure	HCPCS
Q5116	Injection, trastuzumab-qyyp, biosimilar, (Trazimera), 10 mg	Procedure	HCPCS
Q5117	Injection, trastuzumab-anns, biosimilar, (Kanjinti), 10 mg	Procedure	HCPCS
Q5118	Injection, bevacizumab-bvzr, biosimilar, (Zirabev), 10 mg	Procedure	HCPCS
Q5119	Injection, rituximab-pvvr, biosimilar, (RUXIENCE), 10 mg	Procedure	HCPCS
Q5123	Injection, rituximab-arrx, biosimilar, (Riabni), 10 mg	Procedure	HCPCS
Q9979	Injection, Alemtuzumab, 1 mg	Procedure	HCPCS
S0108	Mercaptopurine, oral, 50 mg	Procedure	HCPCS
S0117	Tretinoin, topical, 5 g	Procedure	HCPCS
S0156	Exemestane, 25 mg	Procedure	HCPCS
S0170	Anastrozole, oral, 1 mg	Procedure	HCPCS
S0172	Chlorambucil, oral, 2 mg	Procedure	HCPCS
S0175	Flutamide, oral, 125 mg	Procedure	HCPCS
S0176	Hydroxyurea, oral, 500 mg	Procedure	HCPCS
S0178	Lomustine, oral, 10 mg	Procedure	HCPCS
S0179	Megestrol acetate, oral, 20 mg	Procedure	HCPCS

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

Code	Description	Code Category	Code Type
S0182	Procarbazine HCl, oral, 50 mg	Procedure	HCPCS
S0187	Tamoxifen citrate, oral, 10 mg	Procedure	HCPCS
Ocrelizumab			
C9494	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
J2350	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
Alemtuzumab			
J0202	Injection, alemtuzumab, 1 mg	Procedure	HCPCS
J9010	Injection, alemtuzumab, 10 mg	Procedure	HCPCS
Q9979	Injection, Alemtuzumab, 1 mg	Procedure	HCPCS
Glatiramer			
J1595	Injection, glatiramer acetate, 20 mg	Procedure	HCPCS
Interferon beta			
J1825	Injection, interferon beta-1a, 33 mcg	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	Procedure	HCPCS
J1830	Injection interferon beta-1b, 0.25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
Q3025	Injection, interferon beta-1a, 11 mcg for intramuscular use	Procedure	HCPCS
Q3026	Injection, interferon beta-1a, 11 mcg for subcutaneous use	Procedure	HCPCS
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
Natalizumab			
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS
Cladribine			
J9065	Injection, cladribine, per 1 mg	Procedure	HCPCS
Mitoxantrone			
J9293	Injection, mitoxantrone HCl, per 5 mg	Procedure	HCPCS
Misoprostol			
S0191	Misoprostol, oral, 200 mcg	Procedure	HCPCS

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

Code	Description	Code Category	Code Type
Live birth delivery			
641.01	Placenta previa without hemorrhage, with delivery	Diagnosis	ICD-9-CM
641.11	Hemorrhage from placenta previa, with delivery	Diagnosis	ICD-9-CM
641.21	Premature separation of placenta, with delivery	Diagnosis	ICD-9-CM
641.31	Antepartum hemorrhage associated with coagulation defects, with delivery	Diagnosis	ICD-9-CM
641.81	Other antepartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
641.91	Unspecified antepartum hemorrhage, with delivery	Diagnosis	ICD-9-CM
642.01	Benign essential hypertension with delivery	Diagnosis	ICD-9-CM
642.02	Benign essential hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.11	Hypertension secondary to renal disease, with delivery	Diagnosis	ICD-9-CM
642.12	Hypertension secondary to renal disease, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.21	Other pre-existing hypertension, with delivery	Diagnosis	ICD-9-CM
642.22	Other pre-existing hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.31	Transient hypertension of pregnancy, with delivery	Diagnosis	ICD-9-CM
642.32	Transient hypertension of pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.41	Mild or unspecified pre-eclampsia, with delivery	Diagnosis	ICD-9-CM
642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.51	Severe pre-eclampsia, with delivery	Diagnosis	ICD-9-CM
642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.61	Eclampsia, with delivery	Diagnosis	ICD-9-CM
642.62	Eclampsia, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	Diagnosis	ICD-9-CM
642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
642.91	Unspecified hypertension, with delivery	Diagnosis	ICD-9-CM
642.92	Unspecified hypertension, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
643.01	Mild hyperemesis gravidarum, delivered	Diagnosis	ICD-9-CM
643.11	Hyperemesis gravidarum with metabolic disturbance, delivered	Diagnosis	ICD-9-CM
643.21	Late vomiting of pregnancy, delivered	Diagnosis	ICD-9-CM
643.81	Other vomiting complicating pregnancy, delivered	Diagnosis	ICD-9-CM
643.91	Unspecified vomiting of pregnancy, delivered	Diagnosis	ICD-9-CM
644.21	Early onset of delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
645.01	Prolonged pregnancy, with delivery	Diagnosis	ICD-9-CM
645.11	Post term pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
645.21	Prolonged pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.01	Papyraceous fetus, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.11	Edema or excessive weight gain in pregnancy, with delivery, with or without mention of antepartum complication	Diagnosis	ICD-9-CM
646.12	Edema or excessive weight gain in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.21	Unspecified renal disease in pregnancy, with delivery	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
646.22	Unspecified renal disease in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.31	Pregnancy complication, recurrent pregnancy loss, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.41	Peripheral neuritis in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.42	Peripheral neuritis in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.51	Asymptomatic bacteriuria in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.52	Asymptomatic bacteriuria in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.61	Infections of genitourinary tract in pregnancy, with delivery	Diagnosis	ICD-9-CM
646.62	Infections of genitourinary tract in pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.71	Liver and biliary tract disorders in pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
646.81	Other specified complication of pregnancy, with delivery	Diagnosis	ICD-9-CM
646.82	Other specified complications of pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
646.91	Unspecified complication of pregnancy, with delivery	Diagnosis	ICD-9-CM
647.01	Maternal syphilis, complicating pregnancy, with delivery	Diagnosis	ICD-9-CM
647.02	Maternal syphilis, complicating pregnancy, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.11	Maternal gonorrhea with delivery	Diagnosis	ICD-9-CM
647.12	Maternal gonorrhea, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.21	Other maternal venereal diseases with delivery	Diagnosis	ICD-9-CM
647.22	Other maternal venereal diseases with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.31	Maternal tuberculosis with delivery	Diagnosis	ICD-9-CM
647.32	Maternal tuberculosis with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.41	Maternal malaria with delivery	Diagnosis	ICD-9-CM
647.42	Maternal malaria with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.51	Maternal rubella with delivery	Diagnosis	ICD-9-CM
647.52	Maternal rubella with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.61	Other maternal viral disease with delivery	Diagnosis	ICD-9-CM
647.62	Other maternal viral disease with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.81	Other specified maternal infectious and parasitic disease with delivery	Diagnosis	ICD-9-CM
647.82	Other specified maternal infectious and parasitic disease with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
647.91	Unspecified maternal infection or infestation with delivery	Diagnosis	ICD-9-CM
647.92	Unspecified maternal infection or infestation with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.01	Maternal diabetes mellitus with delivery	Diagnosis	ICD-9-CM
648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.11	Maternal thyroid dysfunction with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
648.12	Maternal thyroid dysfunction with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.21	Maternal anemia, with delivery	Diagnosis	ICD-9-CM
648.22	Maternal anemia with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.31	Maternal drug dependence, with delivery	Diagnosis	ICD-9-CM
648.32	Maternal drug dependence, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.41	Maternal mental disorders, with delivery	Diagnosis	ICD-9-CM
648.42	Maternal mental disorders, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.51	Maternal congenital cardiovascular disorders, with delivery	Diagnosis	ICD-9-CM
648.52	Maternal congenital cardiovascular disorders, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.61	Other maternal cardiovascular diseases, with delivery	Diagnosis	ICD-9-CM
648.62	Other maternal cardiovascular diseases, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.71	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery	Diagnosis	ICD-9-CM
648.72	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.81	Abnormal maternal glucose tolerance, with delivery	Diagnosis	ICD-9-CM
648.82	Abnormal maternal glucose tolerance, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.91	Other current maternal conditions classifiable elsewhere, with delivery	Diagnosis	ICD-9-CM
648.92	Other current maternal conditions classifiable elsewhere, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.31	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.32	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
649.61	Uterine size date discrepancy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.62	Uterine size date discrepancy, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.71	Cervical shortening, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.81	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.82	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
650	Normal delivery	Diagnosis	ICD-9-CM
651.01	Twin pregnancy, delivered	Diagnosis	ICD-9-CM
651.11	Triplet pregnancy, delivered	Diagnosis	ICD-9-CM
651.21	Quadruplet pregnancy, delivered	Diagnosis	ICD-9-CM
651.31	Twin pregnancy with fetal loss and retention of one fetus, delivered	Diagnosis	ICD-9-CM
651.41	Triplet pregnancy with fetal loss and retention of one or more, delivered	Diagnosis	ICD-9-CM
651.51	Quadruplet pregnancy with fetal loss and retention of one or more, delivered	Diagnosis	ICD-9-CM
651.61	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), delivered	Diagnosis	ICD-9-CM
651.71	Multiple gestation following (elective) fetal reduction, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
651.81	Other specified multiple gestation, delivered	Diagnosis	ICD-9-CM
651.91	Unspecified multiple gestation, delivered	Diagnosis	ICD-9-CM
652.01	Unstable lie of fetus, delivered	Diagnosis	ICD-9-CM
652.11	Breech or other malpresentation successfully converted to cephalic presentation, delivered	Diagnosis	ICD-9-CM
652.21	Breech presentation without mention of version, delivered	Diagnosis	ICD-9-CM
652.31	Transverse or oblique fetal presentation, delivered	Diagnosis	ICD-9-CM
652.41	Fetal face or brow presentation, delivered	Diagnosis	ICD-9-CM
652.51	High fetal head at term, delivered	Diagnosis	ICD-9-CM
652.61	Multiple gestation with malpresentation of one fetus or more, delivered	Diagnosis	ICD-9-CM
652.71	Prolapsed arm of fetus, delivered	Diagnosis	ICD-9-CM
652.81	Other specified malposition or malpresentation of fetus, delivered	Diagnosis	ICD-9-CM
652.91	Unspecified malposition or malpresentation of fetus, delivered	Diagnosis	ICD-9-CM
653.01	Major abnormality of bony pelvis, not further specified, delivered	Diagnosis	ICD-9-CM
653.11	Generally contracted pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.21	Inlet contraction of pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.31	Outlet contraction of pelvis in pregnancy, delivered	Diagnosis	ICD-9-CM
653.41	Fetopelvic disproportion, delivered	Diagnosis	ICD-9-CM
653.51	Unusually large fetus causing disproportion, delivered	Diagnosis	ICD-9-CM
653.61	Hydrocephalic fetus causing disproportion, delivered	Diagnosis	ICD-9-CM
653.71	Other fetal abnormality causing disproportion, delivered	Diagnosis	ICD-9-CM
653.81	Fetal disproportion of other origin, delivered	Diagnosis	ICD-9-CM
653.91	Unspecified fetal disproportion, delivered	Diagnosis	ICD-9-CM
654.01	Congenital abnormalities of pregnant uterus, delivered	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
654.02	Congenital abnormalities of pregnant uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.11	Tumors of body of uterus, delivered	Diagnosis	ICD-9-CM
654.12	Tumors of body of uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.21	Previous cesarean delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
654.31	Retroverted and incarcerated gravid uterus, delivered	Diagnosis	ICD-9-CM
654.32	Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.41	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered	Diagnosis	ICD-9-CM
654.42	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.51	Cervical incompetence, delivered	Diagnosis	ICD-9-CM
654.52	Cervical incompetence, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.61	Other congenital or acquired abnormality of cervix, with delivery	Diagnosis	ICD-9-CM
654.62	Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.71	Congenital or acquired abnormality of vagina, with delivery	Diagnosis	ICD-9-CM
654.72	Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.81	Congenital or acquired abnormality of vulva, with delivery	Diagnosis	ICD-9-CM
654.82	Congenital or acquired abnormality of vulva, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
654.91	Other and unspecified abnormality of organs and soft tissues of pelvis, with delivery	Diagnosis	ICD-9-CM
654.92	Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
655.01	Central nervous system malformation in fetus, with delivery	Diagnosis	ICD-9-CM
655.11	Chromosomal abnormality in fetus, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.21	Hereditary disease in family possibly affecting fetus, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.31	Suspected damage to fetus from viral disease in mother, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.41	Suspected damage to fetus from other disease in mother, affecting management of mother, with delivery	Diagnosis	ICD-9-CM
655.51	Suspected damage to fetus from drugs, affecting management of mother, delivered	Diagnosis	ICD-9-CM
655.61	Suspected damage to fetus from radiation, affecting management of mother,	Diagnosis	ICD-9-CM
655.71	Decreased fetal movements, affecting management of mother, delivered	Diagnosis	ICD-9-CM
655.81	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivery	Diagnosis	ICD-9-CM
655.91	Unspecified fetal abnormality affecting management of mother, delivery	Diagnosis	ICD-9-CM
656.01	Fetal-maternal hemorrhage, with delivery	Diagnosis	ICD-9-CM
656.11	Rhesus isoimmunization affecting management of mother, delivered	Diagnosis	ICD-9-CM
656.21	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, delivered	Diagnosis	ICD-9-CM

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

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

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

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Code	Description	Code Category	Code Type
667.12	Retained portions of placenta or membranes, without hemorrhage, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.01	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.02	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.11	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.12	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.21	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.22	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.81	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.82	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
668.91	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered	Diagnosis	ICD-9-CM
668.92	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.01	Maternal distress, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.02	Maternal distress, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.11	Shock during or following labor and delivery, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.12	Shock during or following labor and delivery, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.21	Maternal hypotension syndrome, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.22	Maternal hypotension syndrome, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.32	Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.41	Other complications of obstetrical surgery and procedures, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.42	Other complications of obstetrical surgery and procedures, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.51	Forceps or vacuum extractor delivery without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.61	Breech extraction, without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.71	Cesarean delivery, without mention of indication, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
669.81	Other complication of labor and delivery, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.82	Other complication of labor and delivery, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
669.91	Unspecified complication of labor and delivery, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
669.92	Unspecified complication of labor and delivery, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.02	Major puerperal infection, unspecified, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.12	Puerperal endometritis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.22	Puerperal sepsis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.32	Puerperal septic thrombophlebitis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
670.82	Other major puerperal infection, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.01	Varicose veins of legs, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.02	Varicose veins of legs, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.11	Varicose veins of vulva and perineum, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.12	Varicose veins of vulva and perineum, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.21	Superficial thrombophlebitis with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.22	Superficial thrombophlebitis with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.31	Deep phlebothrombosis, antepartum, with delivery	Diagnosis	ICD-9-CM
671.42	Deep phlebothrombosis, postpartum, with delivery	Diagnosis	ICD-9-CM
671.51	Other phlebitis and thrombosis with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.52	Other phlebitis and thrombosis with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.81	Other venous complication, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.82	Other venous complication, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
671.91	Unspecified venous complication, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
671.92	Unspecified venous complication, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
672.02	Puerperal pyrexia of unknown origin, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.01	Obstetrical air embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.02	Obstetrical air embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.11	Amniotic fluid embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
673.12	Amniotic fluid embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.21	Obstetrical blood-clot embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.22	Obstetrical blood-clot embolism, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.31	Obstetrical pyemic and septic embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.32	Obstetrical pyemic and septic embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
673.81	Other obstetrical pulmonary embolism, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
673.82	Other obstetrical pulmonary embolism, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.01	Cerebrovascular disorder, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
674.02	Cerebrovascular disorder, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.12	Disruption of cesarean wound, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.22	Disruption of perineal wound, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.32	Other complication of obstetrical surgical wounds, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.42	Placental polyp, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.51	Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
674.52	Peripartum cardiomyopathy, delivered, with mention of postpartum condition	Diagnosis	ICD-9-CM
674.82	Other complication of puerperium, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
674.92	Unspecified complications of puerperium, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.01	Infection of nipple associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.02	Infection of nipple associated with childbirth, delivered with mention of postpartum complication	Diagnosis	ICD-9-CM
675.11	Abscess of breast associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.12	Abscess of breast associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.21	Nonpurulent mastitis, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.22	Nonpurulent mastitis, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.81	Other specified infection of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
675.82	Other specified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
675.91	Unspecified infection of the breast and nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
675.92	Unspecified infection of the breast and nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.01	Retracted nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.02	Retracted nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.11	Cracked nipple, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.12	Cracked nipple, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.21	Engorgement of breasts, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.22	Engorgement of breasts, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.31	Other and unspecified disorder of breast associated with childbirth, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.32	Other and unspecified disorder of breast associated with childbirth, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.41	Failure of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.42	Failure of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.51	Suppressed lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.52	Suppressed lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.61	Galactorrhea, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.62	Galactorrhea, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.81	Other disorder of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.82	Other disorder of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
676.91	Unspecified disorder of lactation, with delivery, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
676.92	Unspecified disorder of lactation, with delivery, with mention of postpartum complication	Diagnosis	ICD-9-CM
678.01	Fetal hematologic conditions, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
678.11	Fetal conjoined twins, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.01	Maternal complications from in utero procedure, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.02	Maternal complications from in utero procedure, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
679.11	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
679.12	Fetal complications from in utero procedure, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
763.0	Fetus or newborn affected by breech delivery and extraction	Diagnosis	ICD-9-CM
763.2	Fetus or newborn affected by forceps delivery	Diagnosis	ICD-9-CM
763.3	Fetus or newborn affected by delivery by vacuum extractor	Diagnosis	ICD-9-CM
763.4	Fetus or newborn affected by cesarean delivery	Diagnosis	ICD-9-CM
763.6	Fetus or newborn affected by precipitate delivery	Diagnosis	ICD-9-CM
768.0	Fetal death from asphyxia or anoxia before onset of labor or at unspecified time	Diagnosis	ICD-9-CM
768.1	Fetal death from asphyxia or anoxia during labor	Diagnosis	ICD-9-CM
V27	Outcome of delivery	Diagnosis	ICD-9-CM
V27.0	Outcome of delivery, single liveborn	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V27.1	Outcome of delivery, single stillborn	Diagnosis	ICD-9-CM
V27.2	Outcome of delivery, twins, both liveborn	Diagnosis	ICD-9-CM
V27.3	Outcome of delivery, twins, one liveborn and one stillborn	Diagnosis	ICD-9-CM
V27.4	Outcome of delivery, twins, both stillborn	Diagnosis	ICD-9-CM
V27.5	Outcome of delivery, other multiple birth, all liveborn	Diagnosis	ICD-9-CM
V27.6	Outcome of delivery, other multiple birth, some liveborn	Diagnosis	ICD-9-CM
V27.7	Outcome of delivery, other multiple birth, all stillborn	Diagnosis	ICD-9-CM
V27.9	Outcome of delivery, unspecified	Diagnosis	ICD-9-CM
V30	Single liveborn	Diagnosis	ICD-9-CM
V30.0	Single liveborn, born in hospital	Diagnosis	ICD-9-CM
V30.00	Single liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V30.01	Single liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V30.1	Single liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V30.2	Single liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V31	Twin birth, mate liveborn	Diagnosis	ICD-9-CM
V31.0	Twin, mate liveborn, born in hospital	Diagnosis	ICD-9-CM
V31.00	Twin, mate liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V31.01	Twin, mate liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V31.1	Twin birth, mate liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V31.2	Twin birth, mate liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V32	Twin birth, mate stillborn	Diagnosis	ICD-9-CM
V32.0	Twin, mate stillborn, born in hospital	Diagnosis	ICD-9-CM
V32.00	Twin, mate stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V32.01	Twin, mate stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V32.1	Twin birth, mate stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V32.2	Twin birth, mate stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V33	Twin birth, unspecified whether mate liveborn or stillborn	Diagnosis	ICD-9-CM
V33.0	Twin, unspecified, born in hospital	Diagnosis	ICD-9-CM
V33.00	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V33.01	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V33.1	Twin birth, unspecified whether mate liveborn or stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V33.2	Twin birth, unspecified whether mate liveborn or stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V34	Other multiple birth (three or more), mates all liveborn	Diagnosis	ICD-9-CM
V34.0	Other multiple, mates all liveborn, born in hospital	Diagnosis	ICD-9-CM
V34.00	Other multiple, mates all liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V34.01	Other multiple, mates all liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V34.1	Other multiple birth (three or more), mates all liveborn, born before admission to hospital	Diagnosis	ICD-9-CM
V34.2	Other multiple birth (three or more), mates all liveborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V35	Other multiple birth (three or more), mates all stillborn	Diagnosis	ICD-9-CM
V35.0	Other multiple, mates all stillborn, born in hospital	Diagnosis	ICD-9-CM
V35.00	Other multiple, mates all stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V35.01	Other multiple, mates all stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V35.1	Other multiple birth (three or more), mates all stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V35.2	Other multiple birth (three or more), mates all stillborn, born outside of hospital and not hospitalized	Diagnosis	ICD-9-CM
V36	Other multiple birth (three or more), mates liveborn and stillborn	Diagnosis	ICD-9-CM
V36.0	Other multiple, mates liveborn and stillborn, born in hospital	Diagnosis	ICD-9-CM
V36.00	Other multiple, mates liveborn and stillborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V36.01	Other multiple, mates liveborn and stillborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V36.1	Other multiple birth (three or more), mates liveborn and stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V36.2	Other multiple birth (three or more), mates liveborn and stillborn, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
V37	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn	Diagnosis	ICD-9-CM
V37.0	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital	Diagnosis	ICD-9-CM
V37.00	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V37.01	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered by cesarean delivery	Diagnosis	ICD-9-CM
V37.1	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born before admission to hospital	Diagnosis	ICD-9-CM
V37.2	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born outside of hospital	Diagnosis	ICD-9-CM
V39	Liveborn, unspecified whether single, twin, or multiple	Diagnosis	ICD-9-CM
V39.0	Other liveborn, unspecified whether single, twin, or multiple, born in hospital	Diagnosis	ICD-9-CM
V39.00	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered without mention of cesarean delivery	Diagnosis	ICD-9-CM
V39.01	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered by cesarean	Diagnosis	ICD-9-CM
V39.1	Liveborn, unspecified whether single, twin or multiple, born before admission to hospital	Diagnosis	ICD-9-CM
V39.2	Liveborn, unspecified whether single, twin or multiple, born outside hospital and not hospitalized	Diagnosis	ICD-9-CM
73.0	Artificial rupture of membranes	Procedure	ICD-9-CM
72.5	Breech extraction	Procedure	ICD-9-CM
74.4	Cesarean section of other specified type	Procedure	ICD-9-CM
74.9	Cesarean section of unspecified type	Procedure	ICD-9-CM
74.0	Classical cesarean section	Procedure	ICD-9-CM
73.6	Episiotomy	Procedure	ICD-9-CM

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Code	Description	Code Category	Code Type
73.91	External version to assist delivery	Procedure	ICD-9-CM
74.2	Extraperitoneal cesarean section	Procedure	ICD-9-CM
73.3	Failed forceps	Procedure	ICD-9-CM
72.6	Forceps application to aftercoming head	Procedure	ICD-9-CM
72.4	Forceps rotation of fetal head	Procedure	ICD-9-CM
72	Forceps, vacuum, and breech delivery	Procedure	ICD-9-CM
72.3	High forceps operation	Procedure	ICD-9-CM
72.31	High forceps operation with episiotomy	Procedure	ICD-9-CM
73.93	Incision of cervix to assist delivery	Procedure	ICD-9-CM
73.01	Induction of labor by artificial rupture of membranes	Procedure	ICD-9-CM
73.2	Internal and combined version and extraction	Procedure	ICD-9-CM
73.22	Internal and combined version with extraction	Procedure	ICD-9-CM
73.21	Internal and combined version without extraction	Procedure	ICD-9-CM
74.1	Low cervical cesarean section	Procedure	ICD-9-CM
72.0	Low forceps operation	Procedure	ICD-9-CM
72.1	Low forceps operation with episiotomy	Procedure	ICD-9-CM
73.51	Manual rotation of fetal head	Procedure	ICD-9-CM
73.5	Manually assisted delivery	Procedure	ICD-9-CM
73.4	Medical induction of labor	Procedure	ICD-9-CM
72.2	Mid forceps operation	Procedure	ICD-9-CM
72.21	Mid forceps operation with episiotomy	Procedure	ICD-9-CM
73.8	Operations on fetus to facilitate delivery	Procedure	ICD-9-CM
73.09	Other artificial rupture of membranes	Procedure	ICD-9-CM
74.99	Other cesarean section of unspecified type	Procedure	ICD-9-CM
72.39	Other high forceps operation	Procedure	ICD-9-CM
73.59	Other manually assisted delivery	Procedure	ICD-9-CM
72.29	Other mid forceps operation	Procedure	ICD-9-CM
73.9	Other operations assisting delivery	Procedure	ICD-9-CM
73.99	Other operations to assist delivery	Procedure	ICD-9-CM
72.52	Other partial breech extraction	Procedure	ICD-9-CM
73	Other procedures inducing or assisting delivery	Procedure	ICD-9-CM
72.8	Other specified instrumental delivery	Procedure	ICD-9-CM
73.1	Other surgical induction of labor	Procedure	ICD-9-CM
72.54	Other total breech extraction	Procedure	ICD-9-CM
72.79	Other vacuum extraction	Procedure	ICD-9-CM
72.51	Partial breech extraction with forceps to aftercoming head	Procedure	ICD-9-CM
73.94	Pubiotomy to assist delivery	Procedure	ICD-9-CM
73.92	Replacement of prolapsed umbilical cord	Procedure	ICD-9-CM
72.53	Total breech extraction with forceps to aftercoming head	Procedure	ICD-9-CM
72.9	Unspecified instrumental delivery	Procedure	ICD-9-CM
72.7	Vacuum extraction	Procedure	ICD-9-CM
72.71	Vacuum extraction with episiotomy	Procedure	ICD-9-CM
O10.02	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O10.12	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.42	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O14.94	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O11.4	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O12.04	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
O12.14	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O12.24	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O13.4	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O14.04	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O14.14	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O14.24	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O14.94	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O16.4	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O24.02	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.12	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.32	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24.424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O60.12X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O60.12X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O60.12X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O24.92	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O25.2	Malnutrition in childbirth	Diagnosis	ICD-10-CM
O60.13X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.13X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O60.12X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.13X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O60.13X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O60.12X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O60.13X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O60.14X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.14X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O60.14X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O60.14X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O60.14X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O60.14X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O60.14X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O60.22X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O60.13X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O60.22X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O60.14X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM

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

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Code	Description	Code Category	Code Type
O69.2XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O69.2XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O69.2XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O69.2XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O69.2XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O69.2XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	Diagnosis	ICD-10-CM
O69.3XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.3XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O69.3XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O69.3XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O69.3XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O69.3XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O69.3XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O69.4XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O69.4XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O69.4XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O69.4XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O69.5XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.4XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O69.5XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O69.5XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.5XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O69.5XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM
O69.5XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O69.81X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.81X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O69.81X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O69.81X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O69.81X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O69.81X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O69.81X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM
O69.81X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O69.81X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM
O69.81X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O69.82X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.82X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O69.82X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O69.82X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O69.82X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O69.82X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O69.82X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O69.89X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O69.89X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O69.89X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O69.89X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O69.9XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.89X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O69.89X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O69.9XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O69.9XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O69.9XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM
O69.9XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O69.9XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O69.9XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM
O69.9XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O70.0	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O70.1	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O70.20	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O70.23	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O70.22	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O70.4	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O70.9	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O70.4	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O70.9	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O74.0	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.2	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.3	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.4	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.5	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O74.6	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O74.6	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.8	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.8	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O74.9	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM
O75.0	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM
O75.5	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
O75.5	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
O75.81	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
O75.89	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
O75.9	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
O76	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
O77.0	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
O77.8	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
O77.9	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
O80	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O88.02	Air embolism in childbirth	Diagnosis	ICD-10-CM
O88.22	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
O88.22	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
O88.82	Other embolism in childbirth	Diagnosis	ICD-10-CM
O98.02	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O98.02	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O98.22	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM
O98.32	Other infections with a predominantly sexual mode of transmission complicating childbirth	Diagnosis	ICD-10-CM
O98.42	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O98.42	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O98.62	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.62	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.82	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.82	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O98.92	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
O99.02	Anemia complicating childbirth	Diagnosis	ICD-10-CM
O99.12	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
O99.214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99.284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
O99.314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
O99.324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99.344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
O99.354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
O99.42	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O99.42	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O99.62	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O99.72	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
O99.814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM
O99.824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99.834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A.22	Injury, poisoning and certain other consequences of external causes complicating childbirth	Diagnosis	ICD-10-CM
O9A.32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A.42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A.42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A.52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P03.2	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P03.3	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P03.3	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P03.4	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P07.00	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.00	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.02	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P07.03	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P07.10	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P07.14	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P07.15	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P07.16	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P07.16	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P07.17	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P07.20	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P07.21	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P07.21	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P07.23	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P07.24	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P07.24	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P07.25	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P07.26	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P07.30	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P07.32	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P07.33	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P07.33	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P07.34	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P07.35	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P07.36	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P07.37	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P07.38	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P07.39	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P08.21	Post-term newborn	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Z37.0	Single live birth	Diagnosis	ICD-10-CM
Z37.2	Twins, both liveborn	Diagnosis	ICD-10-CM
Z37.3	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z37.50	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z37.50	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z37.51	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z37.52	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z37.53	Quintuplets, all liveborn	Diagnosis	ICD-10-CM
Z37.54	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z37.59	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z37.60	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z37.61	Triplets, some liveborn	Diagnosis	ICD-10-CM
Z37.62	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z37.63	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z37.64	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z37.69	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z37.9	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z38.00	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.01	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.1	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.2	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z38.30	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.31	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.4	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.5	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z38.61	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.62	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.63	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.64	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.65	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.66	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.68	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z38.69	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z38.7	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z38.8	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
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

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

Code	Description	Code Category	Code Type
10D00Z0	Extraction of Products of Conception, High, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z7	Extraction of Products of Conception, Internal Version, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z8	Extraction of Products of Conception, Other, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10E0XZZ	Delivery of Products of Conception, External Approach	Procedure	ICD-10-PCS
10S07ZZ	Reposition Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
59400	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care	Procedure	CPT-4
59409	Vaginal delivery only (with or without episiotomy and/or forceps);	Procedure	CPT-4
59410	Vaginal delivery only (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care	Procedure	CPT-4
59514	Cesarean delivery only;	Procedure	CPT-4
59515	Cesarean delivery only; including postpartum care	Procedure	CPT-4
59610	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care, after previous cesarean delivery	Procedure	CPT-4
59612	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps);	Procedure	CPT-4
59614	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care	Procedure	CPT-4
59618	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery	Procedure	CPT-4
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	Procedure	CPT-4
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	Procedure	CPT-4

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

Code	Code Type	Code Category	Duration	Description	Priority Group 1	Priority Group 2	Priority Group 3
O481	Diagnosis	ICD-10-CM	294	Prolonged pregnancy	0	1	1
P0822	Diagnosis	ICD-10-CM	294	Prolonged gestation of newborn	0	1	1
Z3A49	Diagnosis	ICD-10-CM	301	Greater than 42 weeks gestation of pregnancy	1	0	1
O480	Diagnosis	ICD-10-CM	287	Post-term pregnancy	0	1	2
P0821	Diagnosis	ICD-10-CM	287	Post-term newborn	0	1	2
Z3A42	Diagnosis	ICD-10-CM	298	42 weeks gestation of pregnancy	1	0	2
Z3A41	Diagnosis	ICD-10-CM	291	41 weeks gestation of pregnancy	1	0	3
Z3A40	Diagnosis	ICD-10-CM	284	40 weeks gestation of pregnancy	1	0	4
Z3A39	Diagnosis	ICD-10-CM	277	39 weeks gestation of pregnancy	1	0	5
Z3A38	Diagnosis	ICD-10-CM	270	38 weeks gestation of pregnancy	1	0	6
Z3A37	Diagnosis	ICD-10-CM	263	37 weeks gestation of pregnancy	1	0	7
P0739	Diagnosis	ICD-10-CM	256	Preterm newborn, gestational age 36 completed weeks	1	0	8
Z3A36	Diagnosis	ICD-10-CM	256	36 weeks gestation of pregnancy	1	0	8
P0738	Diagnosis	ICD-10-CM	249	Preterm newborn, gestational age 35 completed weeks	1	0	9
Z3A35	Diagnosis	ICD-10-CM	249	35 weeks gestation of pregnancy	1	0	9
P0737	Diagnosis	ICD-10-CM	242	Preterm newborn, gestational age 34 completed weeks	1	0	10
Z3A34	Diagnosis	ICD-10-CM	242	34 weeks gestation of pregnancy	1	0	10
P0736	Diagnosis	ICD-10-CM	235	Preterm newborn, gestational age 33 completed weeks	1	0	11
Z3A33	Diagnosis	ICD-10-CM	235	33 weeks gestation of pregnancy	1	0	11
P0735	Diagnosis	ICD-10-CM	228	Preterm newborn, gestational age 32 completed weeks	1	0	12
Z3A32	Diagnosis	ICD-10-CM	228	32 weeks gestation of pregnancy	1	0	12
P0734	Diagnosis	ICD-10-CM	221	Preterm newborn, gestational age 31 completed weeks	1	0	13
Z3A31	Diagnosis	ICD-10-CM	221	31 weeks gestation of pregnancy	1	0	13
P0733	Diagnosis	ICD-10-CM	214	Preterm newborn, gestational age 30 completed weeks	1	0	14
Z3A30	Diagnosis	ICD-10-CM	214	30 weeks gestation of pregnancy	1	0	14
P0732	Diagnosis	ICD-10-CM	207	Preterm newborn, gestational age 29 completed weeks	1	0	15
Z3A29	Diagnosis	ICD-10-CM	207	29 weeks gestation of pregnancy	1	0	15
P0731	Diagnosis	ICD-10-CM	200	Preterm newborn, gestational age 28 completed weeks	1	0	16
Z3A28	Diagnosis	ICD-10-CM	200	28 weeks gestation of pregnancy	1	0	16
P0726	Diagnosis	ICD-10-CM	193	Extreme immaturity of newborn, gestational age 27 completed weeks	1	0	17
Z3A27	Diagnosis	ICD-10-CM	193	27 weeks gestation of pregnancy	1	0	17
P0725	Diagnosis	ICD-10-CM	186	Extreme immaturity of newborn, gestational age 26 completed weeks	1	0	18
Z3A26	Diagnosis	ICD-10-CM	186	26 weeks gestation of pregnancy	1	0	18
P0724	Diagnosis	ICD-10-CM	179	Extreme immaturity of newborn, gestational age 25 completed weeks	1	0	19
Z3A25	Diagnosis	ICD-10-CM	179	25 weeks gestation of pregnancy	1	0	19

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

Code	Code Type	Code Category	Duration	Description	Priority Group 1	Priority Group 2	Priority Group 3
P0723	Diagnosis	ICD-10-CM	172	Extreme immaturity of newborn, gestational age 24 completed weeks	1	0	20
Z3A24	Diagnosis	ICD-10-CM	172	24 weeks gestation of pregnancy	1	0	20
P0722	Diagnosis	ICD-10-CM	165	Extreme immaturity of newborn, gestational age 23 completed weeks	1	0	21
Z3A23	Diagnosis	ICD-10-CM	165	23 weeks gestation of pregnancy	1	0	21
P0721	Diagnosis	ICD-10-CM	158	Extreme immaturity of newborn, gestational age less than 23 completed weeks	1	0	22
Z3A22	Diagnosis	ICD-10-CM	158	22 weeks gestation of pregnancy	1	0	22
Z3A21	Diagnosis	ICD-10-CM	151	21 weeks gestation of pregnancy	1	0	23
Z3A20	Diagnosis	ICD-10-CM	144	20 weeks gestation of pregnancy	1	0	24
P0720	Diagnosis	ICD-10-CM	196	Extreme immaturity of newborn, unspecified weeks of gestation	1	0	25
O6013X0	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X1	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X2	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X3	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X4	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X5	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6013X9	Diagnosis	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O6014X0	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X1	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X2	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X3	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X4	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X5	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O6014X9	Diagnosis	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
P0730	Diagnosis	ICD-10-CM	245	Preterm newborn, unspecified weeks of gestation	1	0	26
O6012X0	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O6012X1	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O6012X2	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27

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

Code	Code Type	Code Category	Duration	Description	Priority Group 1	Priority Group 2	Priority Group 3
O6012X3	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O6012X4	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O6012X5	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O6012X9	Diagnosis	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
64520	Diagnosis	ICD-9-CM	294	Prolonged pregnancy	0	1	28
64521	Diagnosis	ICD-9-CM	294	Prolonged pregnancy	0	1	28
64523	Diagnosis	ICD-9-CM	294	Prolonged pregnancy	0	1	28
76528	Diagnosis	ICD-9-CM	252	35-36 completed weeks of gestation	1	0	28
76622	Diagnosis	ICD-9-CM	294	Prolonged gestation of infant	0	1	28
64510	Diagnosis	ICD-9-CM	287	Post term pregnancy	0	1	29
64511	Diagnosis	ICD-9-CM	287	Post term pregnancy	0	1	29
64513	Diagnosis	ICD-9-CM	287	Post term pregnancy	0	1	29
76527	Diagnosis	ICD-9-CM	238	33-34 completed weeks of gestation	1	0	29
76621	Diagnosis	ICD-9-CM	287	Post-term infant	0	1	29
76526	Diagnosis	ICD-9-CM	224	31-32 completed weeks of gestation	1	0	30
76525	Diagnosis	ICD-9-CM	210	29-30 completed weeks of gestation	1	0	31
76524	Diagnosis	ICD-9-CM	196	27-28 completed weeks of gestation	1	0	32
76523	Diagnosis	ICD-9-CM	182	25-26 completed weeks of gestation	1	0	33
76521	Diagnosis	ICD-9-CM	168	Less than 24 completed weeks of gestation	1	0	34
76522	Diagnosis	ICD-9-CM	168	24 completed weeks of gestation	1	0	34
76500	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76501	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76502	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76503	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76504	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76505	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76506	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76507	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76508	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
76509	Diagnosis	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
64421	Diagnosis	ICD-9-CM	245	Early onset of delivery, delivered, with or without mention of antepartum condition	1	0	36
76510	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76511	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76512	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76513	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76514	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76515	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76516	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76517	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76518	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76519	Diagnosis	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
76520	Diagnosis	ICD-9-CM	245	Unspecified weeks of gestation	1	0	36

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

Code	Code Type	Code Category	Duration	Description	Priority Group 1	Priority Group 2	Priority Group 3
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If multiple codes for specific weeks of gestation (Z codes), preterm delivery, and/or postterm delivery are available, the ICD-10 algorithm for gestational age prioritizes the following codes:

- (1) **Codes that specify weeks of gestation, including all Z codes ranging from 20 weeks through ≥ 42 weeks of gestation in one week increments, and codes that indicate preterm delivery with weeks of gestation specified in one week increments (other than Z codes).** If multiple codes are observed, codes indicating longer gestational age are prioritized over those indicating shorter gestational age. We assumed the approximate mid-point of the specified gestational age [e.g., assumption of 263 days (37 weeks and 4 days) for 37 weeks gestation].
- (2) **Codes that indicate preterm delivery without specifying weeks of gestation.** If multiple codes are observed, codes with more specificity (e.g., preterm delivery, 2nd trimester of pregnancy or 'extreme immaturity') are prioritized over those with less specificity (e.g., preterm newborn, unspecified weeks of gestation). Further, codes indicating longer gestational age are prioritized over those indicating shorter gestational age.
- (3) **Codes that indicate postterm delivery without specifying weeks of gestation.** If multiple codes are observed, codes indicating longer gestational age are prioritized over those indicating shorter gestational age.

If no codes for preterm or postterm delivery are observed, then the default assumption for gestational age is 273 days. However, this assumption is user specified and can be modified.

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

Generic Name	Brand Name
Psychotropic medications	
DIPHENHYDRAMINE HCL	Dicopanor
GABAPENTIN	Fanatrex
alprazolam	Alprazolam Intensol
alprazolam	Niravam
alprazolam	Xanax
alprazolam	Xanax XR
alprazolam	alprazolam
alprazolam/dietary supplement,misc combo no.17	Gabazolamine
amitriptyline HCl	amitriptyline
amitriptyline HCl/chlordiazepoxide	Limbitrol
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amobarbital sodium	Amytal
amoxapine	amoxapine
aripiprazole	Abilify
aripiprazole	Abilify Discmelt
aripiprazole	Abilify Maintena
aripiprazole	Abilify MyCite
aripiprazole	Abilify MyCite Maintenance Kit
aripiprazole	Abilify MyCite Starter Kit
aripiprazole	aripiprazole
aripiprazole lauroxil	Aristada
aripiprazole lauroxil, submicronized	Aristada Initio
asenapine maleate	Saphris
asenapine maleate	Saphris (black cherry)
asenapine maleate	asenapine maleate
brexanolone	Zulresso
brexpiprazole	Rexulti
brivaracetam	Briviact
bupropion HBr	Aplenzin
buspirone HCl	BuSpar
buspirone HCl	Vanspar
buspirone HCl	buspirone
butabarbital sodium	Butisol
cannabidiol (CBD)	Epidiolex
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol
carbamazepine	Tegretol XR
carbamazepine	carbamazepine
cariprazine HCl	Vraylar
cenobamate	Xcopri
cenobamate	Xcopri Maintenance Pack
cenobamate	Xcopri Titration Pack
chloral hydrate	Somnote
chloral hydrate	chloral hydrate
chlordiazepoxide HCl	chlordiazepoxide HCl

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

Generic Name	Brand Name
chlordiazepoxide/clidinium bromide	Librax (with clidinium)
chlordiazepoxide/clidinium bromide	chlordiazepoxide-clidinium
chlorpromazine HCl	chlorpromazine
citalopram hydrobromide	Celexa
citalopram hydrobromide	citalopram
clobazam	Onfi
clobazam	Sympazan
clobazam	clobazam
clomipramine HCl	Anafranil
clomipramine HCl	clomipramine
clonazepam	Klonopin
clonazepam	clonazepam
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	clorazepate dipotassium
clozapine	Clozaril
clozapine	FazaClo
clozapine	Versacloz
clozapine	clozapine
desipramine HCl	Norpramin
desipramine HCl	desipramine
desvenlafaxine	Khedezla
desvenlafaxine	desvenlafaxine
desvenlafaxine fumarate	desvenlafaxine fumarate
desvenlafaxine succinate	Pristiq
desvenlafaxine succinate	desvenlafaxine succinate
dexmedetomidine HCl	Precedex
dexmedetomidine HCl	dexmedetomidine
dexmedetomidine HCl in 0.9 % sodium chloride	Precedex in 0.9 % sodium chlor
dexmedetomidine HCl in 0.9 % sodium chloride	dexmedetomidine in 0.9 % NaCl
dexmedetomidine in 5 % dextrose in water	dexmedetomidine in dextrose 5%
diazepam	Diastat
diazepam	Diastat AcuDial
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
diazepam	diazepam
diphenhydramine HCl	Aler-Cap
diphenhydramine HCl	Aler-Tab
diphenhydramine HCl	Alka-Seltzer Plus Allergy
diphenhydramine HCl	Aller-G-Time
diphenhydramine HCl	Allergy
diphenhydramine HCl	Allergy (diphenhydramine)
diphenhydramine HCl	Allergy Medication
diphenhydramine HCl	Allergy Medicine
diphenhydramine HCl	Allergy Relief(diphenhydramin)
diphenhydramine HCl	Altaryl
diphenhydramine HCl	Antihist
diphenhydramine HCl	Antihistamine

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

Generic Name	Brand Name
diphenhydramine HCl	Banophen
diphenhydramine HCl	Banophen Allergy
diphenhydramine HCl	Benadryl
diphenhydramine HCl	Benadryl Allergy
diphenhydramine HCl	Benadryl Allergy Quick Dissolv
diphenhydramine HCl	Benadryl Dye-Free Allergy
diphenhydramine HCl	Child Allergy Relief (diphen)
diphenhydramine HCl	Child's Benadryl Allergy
diphenhydramine HCl	Children's Allergy (diphenhyd)
diphenhydramine HCl	Children's Allergy Medicine
diphenhydramine HCl	Children's Aurodryl Allergy
diphenhydramine HCl	Children's Benadryl Allergy
diphenhydramine HCl	Children's Complete Allergy
diphenhydramine HCl	Children's Diphenhydramine
diphenhydramine HCl	Children's Wal-Dryl Allergy
diphenhydramine HCl	Complete Allergy
diphenhydramine HCl	Complete Allergy Medicine
diphenhydramine HCl	Compoz
diphenhydramine HCl	Diphedryl
diphenhydramine HCl	Diphedryl Allergy
diphenhydramine HCl	Diphen
diphenhydramine HCl	Diphenhist
diphenhydramine HCl	Dytuss
diphenhydramine HCl	EZ Nite Sleep
diphenhydramine HCl	Genahist
diphenhydramine HCl	Geri-Dryl
diphenhydramine HCl	Hydramine
diphenhydramine HCl	M-Dryl
diphenhydramine HCl	Medi-Phedryl
diphenhydramine HCl	Naramin
diphenhydramine HCl	NightTime Sleep Aid (diphen)
diphenhydramine HCl	Nighttime Sleep
diphenhydramine HCl	Nighttime Allergy Relief
diphenhydramine HCl	Nyt-Time Sleep
diphenhydramine HCl	Nytol
diphenhydramine HCl	Ormir
diphenhydramine HCl	PediaClear Cough
diphenhydramine HCl	Pharbedryl
diphenhydramine HCl	Q-Dryl
diphenhydramine HCl	Quenalin
diphenhydramine HCl	Rest Simply Nighttime Sleep
diphenhydramine HCl	Restfully Sleep
diphenhydramine HCl	Siladryl SA
diphenhydramine HCl	Silphen Cough
diphenhydramine HCl	Simply Sleep
diphenhydramine HCl	Sleep
diphenhydramine HCl	Sleep Aid (diphenhydramine)
diphenhydramine HCl	Sleep Aid Max Str (diphenhydr)

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

Generic Name	Brand Name
diphenhydramine HCl	Sleep II
diphenhydramine HCl	Sleep Tablet (diphenhydramine)
diphenhydramine HCl	Sleep Time
diphenhydramine HCl	Sleep-Eze 3
diphenhydramine HCl	Sleep-Tabs
diphenhydramine HCl	Sleepgels
diphenhydramine HCl	Sleeping
diphenhydramine HCl	Sominex
diphenhydramine HCl	Sominex Maximum Strength
diphenhydramine HCl	Theraflu Multi Symptom
diphenhydramine HCl	Total Allergy Medicine
diphenhydramine HCl	Triaminic Allergy
diphenhydramine HCl	Triaminic Cough/Runny Nose
diphenhydramine HCl	Unisom (diphenhydramine)
diphenhydramine HCl	Unisom SleepGels
diphenhydramine HCl	Unisom SleepMelts
diphenhydramine HCl	Valu-Dryl
diphenhydramine HCl	Valu-Dryl Allergy
diphenhydramine HCl	Valu-Dryl Child's Allergy
diphenhydramine HCl	Vanamine PD
diphenhydramine HCl	Vicks QlearQuil Nighttime Rlf
diphenhydramine HCl	Wal-Dryl Allergy
diphenhydramine HCl	Wal-Sleep Z
diphenhydramine HCl	Wal-Som (diphenhydramine)
diphenhydramine HCl	Z-Sleep
diphenhydramine HCl	ZzzQuil
diphenhydramine HCl	diphenhydramine HCl
divalproex sodium	Depakote
divalproex sodium	Depakote ER
divalproex sodium	Depakote Sprinkles
divalproex sodium	divalproex
doxepin HCl	Silenor
doxepin HCl	doxepin
duloxetine HCl	Cymbalta
duloxetine HCl	Drizalma Sprinkle
duloxetine HCl	Irenka
duloxetine HCl	duloxetine
escitalopram oxalate	Lexapro
escitalopram oxalate	escitalopram oxalate
esketamine HCl	Spravato
eslicarbazepine acetate	Aptiom
estazolam	estazolam
eszopiclone	Lunesta
eszopiclone	eszopiclone
ethosuximide	Zarontin
ethosuximide	ethosuximide
ethotoin	Peganone
ezogabine	Potiga

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

Generic Name	Brand Name
felbamate	Felbatol
felbamate	felbamate
fenfluramine HCl	Fintepla
fluoxetine HCl	Prozac
fluoxetine HCl	Prozac Weekly
fluoxetine HCl	Sarafem
fluoxetine HCl	Selfemra
fluoxetine HCl	fluoxetine
fluoxetine HCl/dietary supplement no.17	Gaboxetine
fluoxetine HCl/dietary supplement no.8	Sentroxatine
fluphenazine HCl	fluphenazine HCl
fluphenazine decanoate	fluphenazine decanoate
flurazepam HCl	flurazepam
fluvoxamine maleate	Luvox CR
fluvoxamine maleate	fluvoxamine
fosphenytoin sodium	Cerebyx
fosphenytoin sodium	fosphenytoin
gabapentin/dietary supplement, misc combo no.11	Therapentin-60
gabapentin/dietary supplement, misc combo no.11	Therapentin-90
haloperidol	haloperidol
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	haloperidol decanoate
haloperidol lactate	Haldol
haloperidol lactate	haloperidol lactate
hydroxyzine HCl	hydroxyzine HCl
hydroxyzine pamoate	Vistaril
hydroxyzine pamoate	hydroxyzine pamoate
iloperidone	Fanapt
imipramine HCl	Tofranil
imipramine HCl	imipramine HCl
imipramine pamoate	Tofranil-PM
imipramine pamoate	imipramine pamoate
isocarboxazid	Marplan
lacosamide	Vimpat
lamotrigine	Lamictal
lamotrigine	Lamictal ODT
lamotrigine	Lamictal ODT Starter (Blue)
lamotrigine	Lamictal ODT Starter (Green)
lamotrigine	Lamictal ODT Starter (Orange)
lamotrigine	Lamictal Starter (Blue) Kit
lamotrigine	Lamictal Starter (Green) Kit
lamotrigine	Lamictal Starter (Orange) Kit
lamotrigine	Lamictal XR
lamotrigine	Lamictal XR Starter (Blue)
lamotrigine	Lamictal XR Starter (Green)
lamotrigine	Subvenite
lamotrigine	Subvenite Starter (Blue) Kit
lamotrigine	Subvenite Starter (Green) Kit

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

Generic Name	Brand Name
lamotrigine	Subvenite Starter (Orange) Kit
lamotrigine	lamotrigine
levetiracetam	Keppra
levetiracetam	Keppra XR
levetiracetam	Roweepra
levetiracetam	Roweepra XR
levetiracetam	Spritam
levetiracetam	levetiracetam
levetiracetam in sodium chloride, iso-osmotic	levetiracetam in NaCl (iso-os)
levomilnacipran HCl	Fetzima
lorazepam	Ativan
lorazepam	Lorazepam Intensol
lorazepam	Loreev XR
lorazepam	lorazepam
lorazepam in 0.9 % sodium chloride	lorazepam in 0.9% sod chloride
lorazepam in 5 % dextrose and water	lorazepam in dextrose 5 %
loxapine	Adasuve
loxapine succinate	Loxitane
loxapine succinate	loxapine succinate
lumateperone tosylate	Caplyta
lurasidone HCl	Latuda
maprotiline HCl	maprotiline
melatonin	Children's Sleep (melatonin)
melatonin	Meladox
melatonin	Melatin
melatonin	VitaJoy Melatonin
melatonin	melatonin
mephobarbital	Mebaral
meprobamate	meprobamate
methohexital sodium	Brevital
methohexital sodium in sterile water for injection/PF	methohexital in water (PF)
methsuximide	Celontin
midazolam	Nayzilam
midazolam HCl	midazolam
midazolam HCl in 0.9 % sodium chloride	midazolam in 0.9 % sod chlorid
midazolam HCl in 0.9 % sodium chloride/PF	midazolam (PF) in 0.9 % NaCl
midazolam HCl in 5 % dextrose and water/PF	midazolam in dextrose 5 % (PF)
midazolam HCl in dextrose 5% in water	midazolam in dextrose 5 %
midazolam HCl/PF	midazolam (PF)
milnacipran HCl	Savella
mirtazapine	Remeron
mirtazapine	Remeron SolTab
mirtazapine	mirtazapine
molindone HCl	Moban
molindone HCl	molindone
nefazodone HCl	nefazodone
nortriptyline HCl	Pamelor
nortriptyline HCl	nortriptyline

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

Generic Name	Brand Name
olanzapine	Zyprexa
olanzapine	Zyprexa Zydis
olanzapine	olanzapine
olanzapine pamoate	Zyprexa Relprevv
olanzapine/fluoxetine HCl	Symbyax
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
oxazepam	oxazepam
oxcarbazepine	Oxtellar XR
oxcarbazepine	Trileptal
oxcarbazepine	oxcarbazepine
paliperidone	Invega
paliperidone	paliperidone
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
paroxetine HCl	Paxil
paroxetine HCl	Paxil CR
paroxetine HCl	paroxetine HCl
paroxetine mesylate	Brisdelle
paroxetine mesylate	Pexeva
paroxetine mesylate	paroxetine mesylate(menop.sym)
pentobarbital sodium	Nembutal Sodium
pentobarbital sodium	pentobarbital sodium
perampanel	Fycompa
perphenazine	perphenazine
perphenazine/amitriptyline HCl	Duo-Vil 2-10
perphenazine/amitriptyline HCl	Duo-Vil 2-25
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
phenelzine sulfate	Nardil
phenelzine sulfate	phenelzine
phenobarbital	phenobarbital
phenobarbital sodium	Luminal
phenobarbital sodium	phenobarbital sodium
phenobarbital sodium in 0.9 % sodium chloride	phenobarbital in 0.9 % sod chl
phenytoin	Dilantin Infatabs
phenytoin	Dilantin-125
phenytoin	phenytoin
phenytoin sodium	phenytoin sodium
phenytoin sodium extended	Dilantin Extended
phenytoin sodium extended	Dilantin Kapseal
phenytoin sodium extended	Phenytek
phenytoin sodium extended	phenytoin sodium extended
pimavanserin tartrate	Nuplazid
pimozide	Orap
pimozide	pimozide
pregabalin	Lyrica
pregabalin	Lyrica CR
pregabalin	pregabalin
primidone	Mysoline

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

Generic Name	Brand Name
primidone	primidone
prochlorperazine maleate	Compazine
prochlorperazine maleate	prochlorperazine maleate
protriptyline HCl	Vivactil
protriptyline HCl	protriptyline
quazepam	Doral
quazepam	quazepam
quetiapine fumarate	Seroquel
quetiapine fumarate	Seroquel XR
quetiapine fumarate	quetiapine
ramelteon	Rozerem
ramelteon	ramelteon
remimazolam besylate	Byfavo
risperidone	Perseris
risperidone	Risperdal
risperidone	Risperdal M-TAB
risperidone	risperidone
risperidone microspheres	Risperdal Consta
rufinamide	Banzel
rufinamide	rufinamide
secobarbital sodium	Seconal Sodium
selegiline	Emsam
sertraline HCl	Zoloft
sertraline HCl	sertraline
stiripentol	Diacomit
suvorexant	Belsomra
tasimelteon	Hetlioz
tasimelteon	Hetlioz LQ
temazepam	Restoril
temazepam	temazepam
temazepam/dietary supplement no.8	Strazepam
thiopental sodium	Pentothal
thioridazine HCl	thioridazine
thiothixene	Navane
thiothixene	thiothixene
tiagabine HCl	Gabitril
tiagabine HCl	tiagabine
topiramate	Qudexy XR
topiramate	Topamax
topiramate	Topiragen
topiramate	Trokendi XR
topiramate	topiramate
tranylcypromine sulfat	Parnate
tranylcypromine sulfat	tranylcypromine
trazodone HCl	Desyrel
trazodone HCl	Oleptro ER
trazodone HCl	trazodone
trazodone HCl/dietary supplement no.8	Trazamine

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

Generic Name	Brand Name
triazolam	Halcion
triazolam	triazolam
trifluoperazine HCl	trifluoperazine
trimipramine maleate	Surmontil
trimipramine maleate	trimipramine
tryptophan	tryptophan
valproic acid	Depakene
valproic acid	Stavzor
valproic acid	valproic acid
valproic acid (as sodium salt) (valproate sodium)	Depacon
valproic acid (as sodium salt) (valproate sodium)	Depakene
valproic acid (as sodium salt) (valproate sodium)	valproate sodium
valproic acid (as sodium salt) (valproate sodium)	valproic acid (as sodium salt)
venlafaxine HCl	Effexor
venlafaxine HCl	Effexor XR
venlafaxine HCl	venlafaxine
vigabatrin	Sabril
vigabatrin	Vigadrone
vigabatrin	vigabatrin
vilazodone HCl	Viibryd
viloxazine HCl	Qelbree
vortioxetine hydrobromide	Brintellix
vortioxetine hydrobromide	Trintellix
zaleplon	Sonata
zaleplon	zaleplon
ziprasidone HCl	Geodon
ziprasidone HCl	ziprasidone HCl
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	Zolpimist
zolpidem tartrate	zolpidem
zonisamide	Zonegran
zonisamide	zonisamide
Antidiabetic medications	
acarbose	Precose
acarbose	acarbose
albiglutide	Tanzeum
alogliptin benzoate	Nesina
alogliptin benzoate	alogliptin
alogliptin benzoate/metformin HCl	Kazano
alogliptin benzoate/metformin HCl	alogliptin-metformin
alogliptin benzoate/pioglitazone HCl	Oseni
alogliptin benzoate/pioglitazone HCl	alogliptin-pioglitazone
canagliflozin	Invokana
canagliflozin/metformin HCl	Invokamet
canagliflozin/metformin HCl	Invokamet XR

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

Generic Name	Brand Name
chlorpropamide	chlorpropamide
dapagliflozin propanediol	Farxiga
dapagliflozin propanediol/metformin HCl	Xigduo XR
dapagliflozin propanediol/saxagliptin HCl	Qtern
dulaglutide	Trulicity
empagliflozin	Jardiance
empagliflozin/linagliptin	Glyxambi
empagliflozin/metformin HCl	Synjardy
empagliflozin/metformin HCl	Synjardy XR
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/metformin HCl	Segluromet
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
glimepiride	Amaryl
glimepiride	glimepiride
glipizide	Glucotrol
glipizide	Glucotrol XL
glipizide	glipizide
glipizide/metformin HCl	Metaglip
glipizide/metformin HCl	glipizide-metformin
glyburide	Diabeta
glyburide	glyburide
glyburide,micronized	Glynase
glyburide,micronized	glyburide micronized
glyburide/metformin HCl	Glucovance
glyburide/metformin HCl	glyburide-metformin
linagliptin	Tradjenta
linagliptin/metformin HCl	Jentaduetto
linagliptin/metformin HCl	Jentaduetto XR
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
lixisenatide	Adlyxin
metformin HCl	Fortamet
metformin HCl	Glucophage
metformin HCl	Glucophage XR
metformin HCl	Glumetza
metformin HCl	Riomet
metformin HCl	Riomet ER
metformin HCl	metformin
metformin/amino acids no.7/herbal cmb.125/choline bitartrate	Appformin-D
metformin/caffeine/amino acids 7/herbal comb 125/choline bit	Appformin
miglitol	Glyset
miglitol	miglitol
nateglinide	Starlix

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

Generic Name	Brand Name
nateglinide	nateglinide
pioglitazone HCl	Actos
pioglitazone HCl	pioglitazone
pioglitazone HCl/glimepiride	DUETACT
pioglitazone HCl/glimepiride	pioglitazone-glimepiride
pioglitazone HCl/metformin HCl	Actoplus MET
pioglitazone HCl/metformin HCl	Actoplus Met XR
pioglitazone HCl/metformin HCl	pioglitazone-metformin
pramlintide acetate	Symlin
pramlintide acetate	SymlinPen 120
pramlintide acetate	SymlinPen 60
repaglinide	Prandin
repaglinide	repaglinide
repaglinide/metformin HCl	Prandimet
repaglinide/metformin HCl	repaglinide-metformin
rosiglitazone maleate	Avandia
rosiglitazone maleate/glimepiride	Avandaryl
rosiglitazone maleate/metformin HCl	Avandamet
saxagliptin HCl	Onglyza
saxagliptin HCl/metformin HCl	Kombiglyze XR
semaglutide	Ozempic
semaglutide	Rybelsus
sitagliptin phosphate	Januvia
sitagliptin phosphate/metformin HCl	Janumet
sitagliptin phosphate/metformin HCl	Janumet XR
sitagliptin phosphate/simvastatin	Juvisync
tolazamide	tolazamide
tolbutamide	tolbutamide
Obesity	
benzphetamine HCl	Didrex
benzphetamine HCl	Regimex
benzphetamine HCl	benzphetamine
diethylpropion HCl	diethylpropion
diethylpropion HCl	diethylpropion HCl (bulk)
liraglutide	Saxenda
lorcaserin HCl	Belviq
lorcaserin HCl	Belviq XR
orlistat	Alli
orlistat	Xenical
phendimetrazine tartrate	Bontril PDM
phendimetrazine tartrate	Bontril SR
phendimetrazine tartrate	Bontril Slow-Release
phendimetrazine tartrate	phendimetrazine tartrate
phentermine HCl	Adipex-P
phentermine HCl	Lomaira
phentermine HCl	Suprenza
phentermine HCl	phentermine
phentermine HCl	phentermine HCl (bulk)

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

Generic Name	Brand Name
phentermine HCl/topiramate	Qsymia
semaglutide	Wegovy
setmelanotide acetate	Imcivree
sibutramine HCl m-hydrate	Meridia
Buprenorphine	
buprenorphine	Butrans
buprenorphine	Sublocade
buprenorphine	buprenorphine
buprenorphine HCl	Belbuca
buprenorphine HCl	Buprenex
buprenorphine HCl	Probuphine
buprenorphine HCl	Subutex
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
Nicotine Use	
bupropion HCl	Budeprion SR
bupropion HCl	Budeprion XL
bupropion HCl	Buproban
bupropion HCl	Forfivo XL
bupropion HCl	Wellbutrin
bupropion HCl	Wellbutrin SR
bupropion HCl	Wellbutrin XL
bupropion HCl	Zyban
bupropion HCl	bupropion HCl
bupropion HCl	bupropion HCl (bulk)
bupropion HCl	bupropion HCl (smoking deter)
bupropion HCl/dietary supplement combination no.15	Appbutamone-D
bupropion HCl/dietary supplement combination no.16	Appbutamone
naltrexone HCl/bupropion HCl	Contrave
nicotine	NTS Step 1
nicotine	Nicoderm CQ
nicotine	Nicotrol
nicotine	Nicotrol NS
nicotine	nicotine
nicotine bitartrate	Nicotine Tartrate
nicotine polacrilex	Commit
nicotine polacrilex	Nicorelief
nicotine polacrilex	Nicorette
nicotine polacrilex	Quit 2
nicotine polacrilex	Quit 4
nicotine polacrilex	Stop Smoking Aid
nicotine polacrilex	Thrive Nicotine
nicotine polacrilex	nicotine (polacrilex)
nicotine polacrilex	nicotine polacrilex (bulk)
varenicline tartrate	Chantix
varenicline tartrate	Chantix Continuing Month Box
varenicline tartrate	Chantix Continuing Month Pak
varenicline tartrate	Chantix Starting Month Box

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

Generic Name	Brand Name
varenicline tartrate	Chantix Starting Month Pak
varenicline tartrate	Tyrvaya
varenicline tartrate	varenicline
Insulin	
insulin NPH human isophane	Humulin N NPH Insulin KwikPen
insulin NPH human isophane	Humulin N NPH U-100 Insulin
insulin NPH human isophane	Humulin N Pen
insulin NPH human isophane	Novolin N InnoLet
insulin NPH human isophane	Novolin N NPH U-100 Insulin
insulin NPH human isophane	Novolin N PenFill
insulin NPH human isophane/insulin regular, human	Humulin 50/50
insulin NPH human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 KwikPen
insulin NPH human isophane/insulin regular, human	Novolin 70-30 FlexPen U-100
insulin NPH human isophane/insulin regular, human	Novolin 70/30 InnoLet Insulin
insulin NPH human isophane/insulin regular, human	Novolin 70/30 PenFill
insulin NPH human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin
insulin aspart	Novolog Flexpen U-100 Insulin
insulin aspart	Novolog PenFill U-100 Insulin
insulin aspart	Novolog U-100 Insulin aspart
insulin aspart (niacinamide)	Fiasp FlexTouch U-100 Insulin
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30FlexPen U-100
insulin degludec	Tresiba FlexTouch U-100
insulin degludec	Tresiba FlexTouch U-200
insulin degludec	Tresiba U-100 Insulin
insulin degludec/liraglutide	Xultophy 100/3.6
insulin detemir	Levemir FlexTouch U-100 Insulin
insulin detemir	Levemir Flexpen
insulin detemir	Levemir U-100 Insulin
insulin glargine, human recombinant analog	Basaglar KwikPen U-100 Insulin
insulin glargine, human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine, human recombinant analog	Lantus U-100 Insulin
insulin glargine, human recombinant analog	Toujeo Max U-300 SoloStar
insulin glargine, human recombinant analog	Toujeo SoloStar U-300 Insulin
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
insulin glulisine	Apidra SoloStar U-100 Insulin
insulin glulisine	Apidra U-100 Insulin
insulin lispro	Admelog SoloStar U-100 Insulin
insulin lispro	Admelog U-100 Insulin lispro
insulin lispro	Humalog Junior KwikPen U-100
insulin lispro	Humalog KwikPen Insulin
insulin lispro	Humalog Pen
insulin lispro	Humalog U-100 Insulin
insulin lispro	insulin lispro
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insulin U-100

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

Generic Name	Brand Name
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	insulin lispro protamin-lispro
insulin regular, human	Afrezza
insulin regular, human	Humulin R Regular U-100 Insuln
insulin regular, human	Humulin R U-500 (Conc) Insulin
insulin regular, human	Humulin R U-500 (Conc) Kwikpen
insulin regular, human	Novolin R InnoLet
insulin regular, human	Novolin R PenFill
insulin regular, human	Novolin R Regular U-100 Insuln
Methadone	
methadone HCl	Diskets
methadone HCl	Dolophine
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
Naltrexone	
morphine sulfate/naltrexone HCl	Embeda
naltrexone HCl	Revia
naltrexone HCl	naltrexone
naltrexone microspheres	Vivitrol
Naloxone	
naloxone HCl	Evzio
naloxone HCl	LifEMS Naloxone
naloxone HCl	Narcan
naloxone HCl	naloxone
pentazocine HCl/naloxone HCl	pentazocine-naloxone
Suspected teratogens	
PROGESTERONE	FIRST-Progesterone VGS 100
PROGESTERONE	FIRST-Progesterone VGS 200
PROGESTERONE	FIRST-Progesterone VGS 25
PROGESTERONE	FIRST-Progesterone VGS 50
PROGESTERONE	First-Progesterone VGS 400
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred
Prednisolone Sodium Phosphate/Peak Flow Meter	Asmalpred Plus
betamethasone	Celestone
betamethasone acetate and sodium phos in sterile water/PF	betameth ac,sod phos(PF)-water
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
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
bupivacaine HCl/dexamethasone sodium phos in sterile water	bupivacaine-dexameth in water
cortisone acetate	cortisone
danazol	danazol
dexamethasone	Baycadron

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

Generic Name	Brand Name
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
dexamethasone	Zema-Pak
dexamethasone	ZoDex
dexamethasone	ZonaCort
dexamethasone	dexamethasone
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	dexamethasone sodium phosphate
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
estradiol valerate/dienogest	Natazia
ethynodiol diacetate-ethinyl estradiol	Demulen 1/50 (28)
ethynodiol diacetate-ethinyl estradiol	Kelnor 1-50 (28)
ethynodiol diacetate-ethinyl estradiol	Kelnor 1/35 (28)
ethynodiol diacetate-ethinyl estradiol	Zovia 1-35 (28)
ethynodiol diacetate-ethinyl estradiol	Zovia 1/35E (28)
ethynodiol diacetate-ethinyl estradiol	Zovia 1/50E (28)
ethynodiol diacetate-ethinyl estradiol	ethynodiol diac-eth estradiol
fluconazole	Diflucan
fluconazole	fluconazole
fluconazole in dextrose, iso-osmotic	Diflucan in dextrose (iso-osm)
fluconazole in dextrose, iso-osmotic	fluconazole in dextrose(iso-o)
fluconazole in sodium chloride, iso-osmotic	Diflucan in NaCl (iso-osm)
fluconazole in sodium chloride, iso-osmotic	fluconazole in NaCl (iso-osm)
hydrocortisone	Alkindi Sprinkle
hydrocortisone	Cortef
hydrocortisone	hydrocortisone
hydrocortisone sod succinate	A-Hydrocort
hydrocortisone sod succinate	Solu-Cortef
hydrocortisone sod succinate	Solu-Cortef Act-O-Vial
hydrocortisone sodium succinate/PF	Solu-Cortef Act-O-Vial (PF)
hydroxyprogesterone caproate	Makena
hydroxyprogesterone caproate	hydroxyprogesterone cap(ppres)
hydroxyprogesterone caproate	hydroxyprogesterone caproate
hydroxyprogesterone caproate/PF	Makena
hydroxyprogesterone caproate/PF	Makena (PF)

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

Generic Name	Brand Name
hydroxyprogesterone caproate/PF	hydroxyprogest(PF)(preg presv)
medroxyprogesterone acetate	Depo-Provera
medroxyprogesterone acetate	Depo-SubQ provera 104
medroxyprogesterone acetate	Provera
medroxyprogesterone acetate	medroxyprogesterone
megestrol acetate	Megace
megestrol acetate	Megace ES
megestrol acetate	megestrol
megestrol acetate,micronized	megestrol acetate,micro (bulk)
methimazole	Tapazole
methimazole	methimazole
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Meprolone Unipak
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate in sodium chloride,iso-osmotic/PF	methylpred ac(PF)-NaCl,iso-osm
methylprednisolone acetate in sterile water for injection	methylprednisolone acet-water
methylprednisolone acetate/bupivacaine HCl in sterile water	methylprednisol ac-bupivac-wat
methylprednisolone sodium succinate	A-Methapred
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
norethindrone acetate	Aygestin
norethindrone acetate	norethindrone acetate
prednisolone	Millipred
prednisolone	Millipred DP
prednisolone	Prelone
prednisolone	prednisolone
prednisolone acetate	Flo-Pred
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred
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
progesterone	Progesterone in Oil
progesterone	progesterone
progesterone, micronized	Crinone
progesterone, micronized	Endometrin
progesterone, micronized	Prochieve
progesterone, micronized	Prometrium

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

Generic Name	Brand Name
progesterone, micronized	progesterone micronized
propylthiouracil	propylthiouracil
triamcinolone acetone	Kenalog
triamcinolone acetone	Kenalog-40
triamcinolone acetone	Kenalog-80
triamcinolone acetone	triamcinolone acetone
triamcinolone acetone in 0.9 % sodium chloride	triamcinolone acetone-0.9% NaCl
triamcinolone acetone/0.9% sodium chloride/PF	triamcinolone ac (PF) in 0.9%NaCl
triamcinolone acetone/bupivacaine/in 0.9% sodium chloride	triamcinolone ace-bupiv-0.9% NaCl
triamcinolone acetone/lidocaine HCl	Lidocaine I
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 hexacetone	Aristospan Intra-Articular
triamcinolone hexacetone	Aristospan Intralesional
triamcinolone hexacetone	Hexatrine
Antihypertensives	
acebutolol HCl	Sectral
acebutolol HCl	acebutolol
acetazolamide sodium	acetazolamide sodium
aliskiren hemifumarate	Tekturna
aliskiren hemifumarate	aliskiren
aliskiren hemifumarate/amlodipine besylate	Tekamlo
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
aliskiren/valsartan	Valturna
amiloride HCl	Midamor
amiloride HCl	amiloride
amiloride HCl/hydrochlorothiazide	amiloride-hydrochlorothiazide
amlodipine benzoate	Katerzia
amlodipine besylate	Norvasc
amlodipine besylate	amlodipine
amlodipine besylate/atorvastatin calcium	Caduet
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/celecoxib	Consensi
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiiazid
atenolol	Tenormin
atenolol	atenolol
atenolol/chlorthalidone	Tenoretic 100
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	atenolol-chlorthalidone
azilsartan medoxomil	Edarbi

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

Generic Name	Brand Name
azilsartan medoxomil/chlorthalidone	Edarbyclor
benazepril HCl	Lotensin
benazepril HCl	benazepril
benazepril HCl/hydrochlorothiazide	Lotensin HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
betaxolol HCl	Kerlone
betaxolol HCl	betaxolol
bisoprolol fumarate	Zebeta
bisoprolol fumarate	bisoprolol fumarate
bisoprolol fumarate/hydrochlorothiazide	Ziac
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
bosentan	bosentan
bumetanide	bumetanide
candesartan cilexetil	Atacand
candesartan cilexetil	candesartan
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
captopril	captopril
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
carvedilol	Coreg
carvedilol	carvedilol
carvedilol phosphate	Coreg CR
carvedilol phosphate	carvedilol phosphate
chlorothiazide	Diuril
chlorothiazide	chlorothiazide
chlorothiazide sodium	Diuril IV
chlorothiazide sodium	chlorothiazide sodium
chlorthalidone	Thalitone
chlorthalidone	chlorthalidone
clevidipine butyrate	Cleviprex
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Catapres
clonidine HCl	Kapvay
clonidine HCl	Kapvay Dose Pack
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
clonidine HCl/chlorthalidone	Clorpres
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem CD
diltiazem HCl	Cardizem LA
diltiazem HCl	Cartia XT
diltiazem HCl	DILT-CD
diltiazem HCl	DILT-XR
diltiazem HCl	Dilacor XR
diltiazem HCl	Diltia XT

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

Generic Name	Brand Name
diltiazem HCl	Diltzac ER
diltiazem HCl	Matzim LA
diltiazem HCl	Taztia XT
diltiazem HCl	Tiadylt ER
diltiazem HCl	Tiazac
diltiazem HCl	diltiazem HCl
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
diltiazem HCl/dextrose 5 % in water	diltiazem in dextrose 5 %
doxazosin mesylate	Cardura
doxazosin mesylate	Cardura XL
doxazosin mesylate	doxazosin
enalapril maleate	Epaned
enalapril maleate	Vasotec
enalapril maleate	enalapril maleate
enalapril maleate/hydrochlorothiazide	Vaseretic
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
enalaprilat dihydrate	enalaprilat
epiprenone	Inspra
epiprenone	epiprenone
epoprostenol sodium (glycine)	Flolan
eprosartan mesylate	Teveten
eprosartan mesylate	eprosartan
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
esmolol HCl	Brevibloc
esmolol HCl	esmolol
esmolol HCl in sodium chloride, iso-osmotic	Brevibloc in NaCl (iso-osm)
esmolol HCl in sodium chloride, iso-osmotic	esmolol in NaCl (iso-osm)
esmolol HCl in sterile water	esmolol in sterile water
ethacrynate sodium	Sodium Edecrin
ethacrynate sodium	ethacrynate sodium
ethacrynic acid	Edecrin
ethacrynic acid	ethacrynic acid
felodipine	felodipine
fenoldopam mesylate	Corlopam
fenoldopam mesylate	fenoldopam
fosinopril sodium	fosinopril
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
furosemide	Lasix
furosemide	furosemide
furosemide in 0.9 % sodium chloride	furosemide in 0.9 % NaCl
furosemide/dextrose 5 % in water	furosemide in dextrose 5 %
guanabenz acetate	guanabenz
guanfacine HCl	Intuniv ER
guanfacine HCl	Tenex
guanfacine HCl	guanfacine
hydralazine HCl	hydralazine
hydrochlorothiazide	Microzide
hydrochlorothiazide	hydrochlorothiazide

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

Generic Name	Brand Name
indapamide	indapamide
irbesartan	Avapro
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
isosorbide dinitrate/hydralazine HCl	BiDil
isradipine	DynaCirc CR
isradipine	isradipine
labetalol HCl	Trandate
labetalol HCl	labetalol
labetalol in dextrose 5 % in water	labetalol in dextrose 5 %
lisinopril	Prinivil
lisinopril	Qbrelis
lisinopril	Zestril
lisinopril	lisinopril
lisinopril/dietary supplement,comb.10	Lytensopril
lisinopril/dietary supplement,comb.10	Lytensopril-90
lisinopril/hydrochlorothiazide	Prinzide
lisinopril/hydrochlorothiazide	Zestoretic
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
losartan potassium	Cozaar
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
mecamylamine HCl	Vecamyl
mecamylamine HCl	mecamylamine HCl (bulk)
methazolamide	methazolamide
methyclothiazide	Enduron
methyclothiazide	methyclothiazide
methyldopa	methyldopa
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
methyldopate HCl	methyldopate
metolazone	Zaroxolyn
metolazone	metolazone
metoprolol succinate	Kapsargo Sprinkle
metoprolol succinate	Toprol XL
metoprolol succinate	metoprolol succinate
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
metoprolol tartrate	Lopressor
metoprolol tartrate	metoprolol tartrate
metoprolol tartrate/dietary supplement,comb.10	Hypertensolol
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
minoxidil	minoxidil
moexipril HCl	Univasc
moexipril HCl	moexipril
moexipril HCl/hydrochlorothiazide	Uniretic

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

Generic Name	Brand Name
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
nadolol	Corgard
nadolol	nadolol
nadolol/bendroflumethiazide	Corzide
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
nebivolol HCl	Bystolic
nebivolol HCl/valsartan	Byvalson
nicardipine HCl	Cardene IV
nicardipine HCl	Cardene SR
nicardipine HCl	nicardipine
nicardipine HCl in 0.9 % sodium chloride	nicardipine in 0.9 % sod chlor
nicardipine in 5 % dextrose in water	nicardipine in 5 % dextrose
nicardipine in dextrose, iso-osmotic	Cardene IV in dextrose
nicardipine in sodium chloride, iso-osmotic	Cardene IV in sodium chloride
nicardipine in sodium chloride, iso-osmotic	nicardipine in NaCl (iso-os)
nifedipine	Adalat CC
nifedipine	Afeditab CR
nifedipine	Nifediac CC
nifedipine	Nifedical XL
nifedipine	Procardia
nifedipine	Procardia XL
nifedipine	nifedipine
nisoldipine	Sular
nisoldipine	nisoldipine
nitroprusside sodium	Nitropress
nitroprusside sodium	sodium nitroprusside
nitroprusside sodium in 0.9 % sodium chloride	Nipride RTU
olmesartan medoxomil	Benicar
olmesartan medoxomil	olmesartan
olmesartan medoxomil/amlodipine	
besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine	
besylate/hydrochlorothiazide	
olmesartan medoxomil/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
papaverine HCl	papaverine
penbutolol sulfate	Levatol
perindopril arginine/amlodipine besylate	Prestalia
perindopril erbumine	Aceon
perindopril erbumine	perindopril erbumine
phenoxybenzamine HCl	Dibenzyline
phenoxybenzamine HCl	phenoxybenzamine
phentolamine mesylate	phentolamine
pindolol	pindolol
prazosin HCl	Minipress
prazosin HCl	prazosin
propranolol HCl	Hemangeol
propranolol HCl	Inderal LA

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

Generic Name	Brand Name
propranolol HCl	Inderal XL
propranolol HCl	InnoPran XL
propranolol HCl	propranolol
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
quinapril HCl	Accupril
quinapril HCl	quinapril
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
ramipril	Altace
ramipril	ramipril
reserpine	reserpine
sacubitril/valsartan	Entresto
sildenafil citrate	Revatio
sildenafil citrate	Viagra
sildenafil citrate	sildenafil
sildenafil citrate	sildenafil (pulm.hypertension)
sotalol HCl	Sorine
sotalol HCl	sotalol
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
tadalafil	Alyq
tadalafil	Cialis
tadalafil	tadalafil
telmisartan	Micardis
telmisartan	telmisartan
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
terazosin HCl	Hytrin
terazosin HCl	terazosin
timolol maleate	timolol maleate
toremide	Demadex
toremide	toremide
trandolapril	Mavik
trandolapril	trandolapril
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil
triamterene	Dyrenium
triamterene	triamterene
triamterene/hydrochlorothiazide	Dyazide
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
valsartan	Diovan

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

Generic Name	Brand Name
valsartan	valsartan
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
verapamil HCl	Calan
verapamil HCl	Calan SR
verapamil HCl	Covera-HS
verapamil HCl	Isoptin SR
verapamil HCl	Verelan
verapamil HCl	Verelan PM
verapamil HCl	verapamil
Opioids	
acetaminophen with codeine phosphate	Capital with Codeine
acetaminophen with codeine phosphate	Cocet
acetaminophen with codeine phosphate	Cocet Plus
acetaminophen with codeine phosphate	Tylenol-Codeine #3
acetaminophen with codeine phosphate	Tylenol-Codeine #4
acetaminophen with codeine phosphate	acetaminophen-codeine
acetaminophen/caffeine/dihydrocodeine bitartrate	Dvorah
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor DC
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor SS
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor(acetam-caff-dihydrocod)
acetaminophen/caffeine/dihydrocodeine bitartrate	Trezix
acetaminophen/caffeine/dihydrocodeine bitartrate	Zerlor
acetaminophen/caffeine/dihydrocodeine bitartrate	acetaminophen-caff-dihydrocod
alfentanil HCl	Alfenta
alfentanil HCl	alfentanil
aspirin/caffeine/dihydrocodeine bitartrate	Synalgos-DC
aspirin/caffeine/dihydrocodeine bitartrate	aspirin-caffeine-dihydrocodein
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
buprenorphine	Butrans
buprenorphine	Sublocade
buprenorphine	buprenorphine
buprenorphine HCl	Belbuca
buprenorphine HCl	Buprenex
buprenorphine HCl	Probuphine
buprenorphine HCl	Subutex
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl/naloxone HCl	Bunavail
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
butalbital/acetaminophen/caffeine/codeine phosphate	Fioricet with Codeine
butalbital/acetaminophen/caffeine/codeine phosphate	butalbital-acetaminop-caf-cod
butorphanol tartrate	butorphanol
codeine phosphate	codeine phosphate
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine

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

Generic Name	Brand Name
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
codeine sulfate	codeine sulfate
fentanyl	Duragesic
fentanyl	Subsys
fentanyl	fentanyl
fentanyl HCl	Ionsys
fentanyl citrate	Abstral
fentanyl citrate	Actiq
fentanyl citrate	Fentora
fentanyl citrate	Lazanda
fentanyl citrate	Onsolis
fentanyl citrate	fentanyl citrate
fentanyl citrate in 0.9 % sodium chloride/PF	fentanyl citrate (PF)-0.9%NaCl
fentanyl citrate in dextrose 5% in water/PF	fentanyl citrate in D5W (PF)
fentanyl citrate/PF	Sublimaze (PF)
fentanyl citrate/PF	fentanyl citrate (PF)
hydrocodone bitartrate	Hysingla ER
hydrocodone bitartrate	Zohydro ER
hydrocodone bitartrate	hydrocodone bitartrate
hydrocodone bitartrate/acetaminophen	Co-Gesic
hydrocodone bitartrate/acetaminophen	Hycet
hydrocodone bitartrate/acetaminophen	Hydrogesic
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet 10/650
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lortab
hydrocodone bitartrate/acetaminophen	Lortab 10-325
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Margesic-H
hydrocodone bitartrate/acetaminophen	Maxidone
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Polygesic
hydrocodone bitartrate/acetaminophen	Stagesic
hydrocodone bitartrate/acetaminophen	Verdrocet
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300
hydrocodone bitartrate/acetaminophen	Zamicet
hydrocodone bitartrate/acetaminophen	Zolvit
hydrocodone bitartrate/acetaminophen	Zydone

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

Generic Name	Brand Name
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-325
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-650
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-Low-90
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Vicoprofen
hydrocodone/ibuprofen	Xylon 10
hydrocodone/ibuprofen	hydrocodone-ibuprofen
hydromorphone HCl	Dilaudid
hydromorphone HCl	Exalgo ER
hydromorphone HCl	hydromorphone
hydromorphone HCl in 0.9 % sodium chloride	hydromorphone in 0.9 % NaCl
hydromorphone HCl in 0.9 % sodium chloride/PF	hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	hydromorphone in D5W (PF)
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl/PF	Dilaudid (PF)
hydromorphone HCl/PF	Dilaudid-HP (PF)
hydromorphone HCl/PF	hydromorphone (PF)
ibuprofen/oxycodone HCl	Combunox
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
levorphanol tartrate	levorphanol tartrate
meperidine HCl	Demerol
meperidine HCl	Meperitab
meperidine HCl	meperidine
meperidine HCl in 0.9 % sodium chloride	meperidine in 0.9 % NaCl
meperidine HCl in 0.9 % sodium chloride/PF	meperidine (PF) in 0.9 % NaCl
meperidine HCl/PF	Demerol (PF)
meperidine HCl/PF	meperidine (PF)
methadone HCl	Diskets
methadone HCl	Dolophine
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
morphine sulfate	Arymo ER
morphine sulfate	Avinza
morphine sulfate	Kadian
morphine sulfate	MS Contin
morphine sulfate	MorphaBond ER
morphine sulfate	Oramorph SR
morphine sulfate	morphine
morphine sulfate in 0.9 % sodium chloride	morphine in 0.9 % sodium chlor
morphine sulfate in 0.9 % sodium chloride/PF	morphine (PF) in 0.9 % sod chl

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

Generic Name	Brand Name
morphine sulfate in sodium chloride, iso-osmotic/PF	morphine(PF)in iso sod chlorid
morphine sulfate liposomal/PF	DepoDur (PF)
morphine sulfate/PF	Astramorph-PF
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F
morphine sulfate/PF	Mitigo (PF)
morphine sulfate/PF	morphine (PF)
morphine sulfate/dextrose 5 % in water	morphine in dextrose 5 %
morphine sulfate/dextrose 5%-water/PF	morphine (PF) in dextrose 5 %
morphine sulfate/naltrexone HCl	Embeda
nalbuphine HCl	nalbuphine
oxycodone HCl	Oxaydo
oxycodone HCl	Oxecta
oxycodone HCl	OxyContin
oxycodone HCl	Roxicodone
oxycodone HCl	Roxicodone Intensol
oxycodone HCl	RoxyBond
oxycodone HCl	oxycodone
oxycodone HCl/acetaminophen	Endocet
oxycodone HCl/acetaminophen	Magnacet
oxycodone HCl/acetaminophen	Nalocet
oxycodone HCl/acetaminophen	Percocet
oxycodone HCl/acetaminophen	Primalev
oxycodone HCl/acetaminophen	Primlev
oxycodone HCl/acetaminophen	Prolate
oxycodone HCl/acetaminophen	Roxicet
oxycodone HCl/acetaminophen	Tylox
oxycodone HCl/acetaminophen	Xartemis XR
oxycodone HCl/acetaminophen	Xolox
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/aspirin	Endodan
oxycodone HCl/aspirin	Percodan
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone HCl/oxycodone terephthalate/aspirin	oxycodone HCl-oxycodone-ASA
oxycodone myristate	Xtampza ER
oxymorphone HCl	Numorphan
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
oxymorphone HCl	oxymorphone
pentazocine HCl/acetaminophen	Talacen
pentazocine HCl/acetaminophen	pentazocine-acetaminophen
pentazocine HCl/naloxone HCl	Talwin NX
pentazocine HCl/naloxone HCl	pentazocine-naloxone
pentazocine lactate	Talwin
propoxyphene HCl	Darvon
propoxyphene HCl	propoxyphene
propoxyphene HCl/acetaminophen	propoxyphene-acetaminophen
propoxyphene napsylate	Darvon-N

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

Generic Name	Brand Name
propoxyphene napsylate/acetaminophen	Balacet 325
propoxyphene napsylate/acetaminophen	Darvocet A500
propoxyphene napsylate/acetaminophen	Darvocet-N 100
propoxyphene napsylate/acetaminophen	Darvocet-N 50
propoxyphene napsylate/acetaminophen	Propoxacet-N 100
propoxyphene napsylate/acetaminophen	propoxyphene N-acetaminophen
sufentanil citrate	Dsuvia
sufentanil citrate	Sufenta
sufentanil citrate	sufentanil citrate
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
tramadol HCl	ConZip
tramadol HCl	Qdolo
tramadol HCl	Rybix ODT
tramadol HCl	Ryzolt
tramadol HCl	Ultram
tramadol HCl	Ultram ER
tramadol HCl	tramadol
tramadol HCl/acetaminophen	Ultracet
tramadol HCl/acetaminophen	tramadol-acetaminophen
tramadol HCl/dietary supplement,misc. cb.11	Theratramadol-60
tramadol HCl/dietary supplement,misc. cb.11	Theratramadol-90

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

Code	Description	Code Category	Code Type
Non-cardiac/Non-urinary malformation			
00102	Anesthesia for procedures involving plastic repair of cleft lip	Procedure	CPT-4
00172	Anesthesia for intraoral procedures, including biopsy; repair of cleft palate	Procedure	CPT-4
27.54	Repair of cleft lip	Procedure	ICD-9-CM
27.62	Correction of cleft palate	Procedure	ICD-9-CM
27.63	Revision of cleft palate repair	Procedure	ICD-9-CM
40700	Plastic repair of cleft lip/nasal deformity; primary, partial or complete, unilateral	Procedure	CPT-4
40701	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1-stage procedure	Procedure	CPT-4
40702	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1 of 2 stages	Procedure	CPT-4
40720	Plastic repair of cleft lip/nasal deformity; secondary, by recreation of defect and reclosure	Procedure	CPT-4
40740	Plastic Repair Of Cleft Lip	Procedure	CPT-4
40761	Plastic repair of cleft lip/nasal deformity; with cross lip pedicle flap (Abbe-Estlander type), including sectioning and inserting of pedicle	Procedure	CPT-4
40799	Unlisted procedure, lips	Procedure	CPT-4
42200	Palatoplasty for cleft palate, soft and/or hard palate only	Procedure	CPT-4
42205	Palatoplasty for cleft palate, with closure of alveolar ridge; soft tissue only	Procedure	CPT-4
42210	Palatoplasty for cleft palate, with closure of alveolar ridge; with bone graft to alveolar ridge (includes obtaining graft)	Procedure	CPT-4
42215	Palatoplasty for cleft palate; major revision	Procedure	CPT-4
42220	Palatoplasty for cleft palate; secondary lengthening procedure	Procedure	CPT-4
42225	Palatoplasty for cleft palate; attachment pharyngeal flap	Procedure	CPT-4
42226	Lengthening of palate, and pharyngeal flap	Procedure	CPT-4
42227	Lengthening of palate, with island flap	Procedure	CPT-4
42235	Repair of anterior palate, including vomer flap	Procedure	CPT-4
42260	Repair of nasolabial fistula	Procedure	CPT-4
741.0	Spina bifida with hydrocephalus	Diagnosis	ICD-9-CM
741.00	Spina bifida with hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.01	Spina bifida with hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.02	Spina bifida with hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.03	Spina bifida with hydrocephalus, lumbar region	Diagnosis	ICD-9-CM
741.9	Spina bifida without mention of hydrocephalus	Diagnosis	ICD-9-CM
741.90	Spina bifida without mention of hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.91	Spina bifida without mention of hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.92	Spina bifida without mention of hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.93	Spina bifida without mention of hydrocephalus, lumbar region	Diagnosis	ICD-9-CM
742.0	Encephalocele	Diagnosis	ICD-9-CM
742.1	Microcephalus	Diagnosis	ICD-9-CM
742.2	Congenital reduction deformities of brain	Diagnosis	ICD-9-CM
743.00	Unspecified clinical anophthalmos	Diagnosis	ICD-9-CM
743.10	Unspecified microphthalmos	Diagnosis	ICD-9-CM
743.11	Simple microphthalmos	Diagnosis	ICD-9-CM
743.12	Microphthalmos associated with other anomalies of eye and adnexa	Diagnosis	ICD-9-CM
743.2	Buphthalmos	Diagnosis	ICD-9-CM
743.20	Unspecified buphthalmos	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
743.21	Simple buphthalmos	Diagnosis	ICD-9-CM
743.22	Buphthalmos associated with other ocular anomaly	Diagnosis	ICD-9-CM
743.30	Unspecified congenital cataract	Diagnosis	ICD-9-CM
743.31	Congenital capsular and subcapsular cataract	Diagnosis	ICD-9-CM
743.32	Congenital cortical and zonular cataract	Diagnosis	ICD-9-CM
743.33	Congenital nuclear cataract	Diagnosis	ICD-9-CM
743.34	Congenital total and subtotal cataract	Diagnosis	ICD-9-CM
743.35	Congenital aphakia	Diagnosis	ICD-9-CM
743.36	Congenital anomalies of lens shape	Diagnosis	ICD-9-CM
744.01	Congenital absence of external ear causing impairment of hearing	Diagnosis	ICD-9-CM
744.23	Microtia	Diagnosis	ICD-9-CM
748.0	Congenital choanal atresia	Diagnosis	ICD-9-CM
749	Cleft palate and cleft lip	Diagnosis	ICD-9-CM
749.0	Cleft palate	Diagnosis	ICD-9-CM
749.00	Unspecified cleft palate	Diagnosis	ICD-9-CM
749.01	Unilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.02	Unilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.03	Bilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.04	Bilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.1	Cleft lip	Diagnosis	ICD-9-CM
749.10	Unspecified cleft lip	Diagnosis	ICD-9-CM
749.11	Unilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.12	Unilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.13	Bilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.14	Bilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.2	Cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.20	Unspecified cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.21	Unilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.22	Unilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.23	Bilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.24	Bilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.25	Other combinations of cleft palate with cleft lip	Diagnosis	ICD-9-CM
750.3	Congenital tracheoesophageal fistula, esophageal atresia and stenosis	Diagnosis	ICD-9-CM
750.5	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-9-CM
751.1	Congenital atresia and stenosis of small intestine	Diagnosis	ICD-9-CM
751.2	Congenital atresia and stenosis of large intestine, rectum, and anal canal	Diagnosis	ICD-9-CM
751.61	Congenital biliary atresia	Diagnosis	ICD-9-CM
752.61	Hypospadias	Diagnosis	ICD-9-CM
753.0	Congenital renal agenesis and dysgenesis	Diagnosis	ICD-9-CM
753.15	Congenital renal dysplasia	Diagnosis	ICD-9-CM
753.5	Exstrophy of urinary bladder	Diagnosis	ICD-9-CM
755.2	Congenital reduction deformities of upper limb	Diagnosis	ICD-9-CM
755.3	Congenital reduction deformities of lower limb	Diagnosis	ICD-9-CM
755.4	Congenital reduction deformities, unspecified limb	Diagnosis	ICD-9-CM
755.5	Other congenital anomalies of upper limb, including shoulder girdle	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
755.6	Other congenital anomaly of lower limb, including pelvic girdle	Diagnosis	ICD-9-CM
755.8	Other specified congenital anomalies of unspecified limb	Diagnosis	ICD-9-CM
755.9	Unspecified congenital anomaly of unspecified limb	Diagnosis	ICD-9-CM
756.13	Congenital absence of vertebra	Diagnosis	ICD-9-CM
756.6	Congenital anomaly of diaphragm	Diagnosis	ICD-9-CM
756.71	Prune belly syndrome	Diagnosis	ICD-9-CM
756.72	Omphalocele	Diagnosis	ICD-9-CM
756.73	Gastroschisis	Diagnosis	ICD-9-CM
756.79	Other congenital anomalies of abdominal wall	Diagnosis	ICD-9-CM
Q01.0	Frontal encephalocele	Diagnosis	ICD-10-CM
Q01.1	Nasofrontal encephalocele	Diagnosis	ICD-10-CM
Q01.2	Occipital encephalocele	Diagnosis	ICD-10-CM
Q01.8	Encephalocele of other sites	Diagnosis	ICD-10-CM
Q01.9	Encephalocele, unspecified	Diagnosis	ICD-10-CM
Q02	Microcephaly	Diagnosis	ICD-10-CM
Q04.0	Congenital malformations of corpus callosum	Diagnosis	ICD-10-CM
Q04.1	Arhinencephaly	Diagnosis	ICD-10-CM
Q04.2	Holoprosencephaly	Diagnosis	ICD-10-CM
Q04.3	Other reduction deformities of brain	Diagnosis	ICD-10-CM
Q05.0	Cervical spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.1	Thoracic spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.2	Lumbar spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.3	Sacral spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.4	Unspecified spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.5	Cervical spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.6	Thoracic spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.7	Lumbar spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.8	Sacral spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.9	Spina bifida, unspecified	Diagnosis	ICD-10-CM
Q07.00	Arnold-Chiari syndrome without spina bifida or hydrocephalus	Diagnosis	ICD-10-CM
Q07.01	Arnold-Chiari syndrome with spina bifida	Diagnosis	ICD-10-CM
Q07.02	Arnold-Chiari syndrome with hydrocephalus	Diagnosis	ICD-10-CM
Q07.03	Arnold-Chiari syndrome with spina bifida and hydrocephalus	Diagnosis	ICD-10-CM
Q11.1	Other anophthalmos	Diagnosis	ICD-10-CM
Q11.2	Microphthalmos	Diagnosis	ICD-10-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM
Q12.2	Coloboma of lens	Diagnosis	ICD-10-CM
Q12.3	Congenital aphakia	Diagnosis	ICD-10-CM
Q12.4	Spherophakia	Diagnosis	ICD-10-CM
Q12.8	Other congenital lens malformations	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	Diagnosis	ICD-10-CM
Q16.0	Congenital absence of (ear) auricle	Diagnosis	ICD-10-CM
Q17.2	Microtia	Diagnosis	ICD-10-CM
Q30.0	Choanal atresia	Diagnosis	ICD-10-CM
Q35.1	Cleft hard palate	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q35.3	Cleft soft palate	Diagnosis	ICD-10-CM
Q35.5	Cleft hard palate with cleft soft palate	Diagnosis	ICD-10-CM
Q35.7	Cleft uvula	Diagnosis	ICD-10-CM
Q35.9	Cleft palate, unspecified	Diagnosis	ICD-10-CM
Q36.0	Cleft lip, bilateral	Diagnosis	ICD-10-CM
Q36.1	Cleft lip, median	Diagnosis	ICD-10-CM
Q36.9	Cleft lip, unilateral	Diagnosis	ICD-10-CM
Q37.0	Cleft hard palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.1	Cleft hard palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.2	Cleft soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.3	Cleft soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.4	Cleft hard and soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.5	Cleft hard and soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.8	Unspecified cleft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.9	Unspecified cleft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q39.0	Atresia of esophagus without fistula	Diagnosis	ICD-10-CM
Q39.1	Atresia of esophagus with tracheo-esophageal fistula	Diagnosis	ICD-10-CM
Q39.2	Congenital tracheo-esophageal fistula without atresia	Diagnosis	ICD-10-CM
Q39.3	Congenital stenosis and stricture of esophagus	Diagnosis	ICD-10-CM
Q39.4	Esophageal web	Diagnosis	ICD-10-CM
Q40.0	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-10-CM
Q41.0	Congenital absence, atresia and stenosis of duodenum	Diagnosis	ICD-10-CM
Q41.1	Congenital absence, atresia and stenosis of jejunum	Diagnosis	ICD-10-CM
Q41.2	Congenital absence, atresia and stenosis of ileum	Diagnosis	ICD-10-CM
Q41.8	Congenital absence, atresia and stenosis of other specified parts of small intestine	Diagnosis	ICD-10-CM
Q41.9	Congenital absence, atresia and stenosis of small intestine, part unspecified	Diagnosis	ICD-10-CM
Q42.0	Congenital absence, atresia and stenosis of rectum with fistula	Diagnosis	ICD-10-CM
Q42.1	Congenital absence, atresia and stenosis of rectum without fistula	Diagnosis	ICD-10-CM
Q42.2	Congenital absence, atresia and stenosis of anus with fistula	Diagnosis	ICD-10-CM
Q42.3	Congenital absence, atresia and stenosis of anus without fistula	Diagnosis	ICD-10-CM
Q42.8	Congenital absence, atresia and stenosis of other parts of large intestine	Diagnosis	ICD-10-CM
Q42.9	Congenital absence, atresia and stenosis of large intestine, part unspecified	Diagnosis	ICD-10-CM
Q44.2	Atresia of bile ducts	Diagnosis	ICD-10-CM
Q44.3	Congenital stenosis and stricture of bile ducts	Diagnosis	ICD-10-CM
Q54.0	Hypospadias, balanic	Diagnosis	ICD-10-CM
Q54.1	Hypospadias, penile	Diagnosis	ICD-10-CM
Q54.2	Hypospadias, penoscrotal	Diagnosis	ICD-10-CM
Q54.3	Hypospadias, perineal	Diagnosis	ICD-10-CM
Q54.8	Other hypospadias	Diagnosis	ICD-10-CM
Q54.9	Hypospadias, unspecified	Diagnosis	ICD-10-CM
Q60.0	Renal agenesis, unilateral	Diagnosis	ICD-10-CM
Q60.1	Renal agenesis, bilateral	Diagnosis	ICD-10-CM
Q60.2	Renal agenesis, unspecified	Diagnosis	ICD-10-CM
Q60.3	Renal hypoplasia, unilateral	Diagnosis	ICD-10-CM
Q60.4	Renal hypoplasia, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q60.5	Renal hypoplasia, unspecified	Diagnosis	ICD-10-CM
Q60.6	Potter's syndrome	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q64.10	Exstrophy of urinary bladder, unspecified	Diagnosis	ICD-10-CM
Q64.11	Supravescical fissure of urinary bladder	Diagnosis	ICD-10-CM
Q64.12	Cloacal exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q64.19	Other exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q73.0	Congenital absence of unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.1	Phocomelia, unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.8	Other reduction defects of unspecified limb(s)	Diagnosis	ICD-10-CM
Q74.8	Other specified congenital malformations of limb(s)	Diagnosis	ICD-10-CM
Q74.9	Unspecified congenital malformation of limb(s)	Diagnosis	ICD-10-CM
Q76.49	Other congenital malformations of spine, not associated with scoliosis	Diagnosis	ICD-10-CM
Q79.0	Congenital diaphragmatic hernia	Diagnosis	ICD-10-CM
Q79.1	Other congenital malformations of diaphragm	Diagnosis	ICD-10-CM
Q79.2	Exomphalos	Diagnosis	ICD-10-CM
Q79.3	Gastroschisis	Diagnosis	ICD-10-CM
Q79.4	Prune belly syndrome	Diagnosis	ICD-10-CM
Q79.51	Congenital hernia of bladder	Diagnosis	ICD-10-CM
Q79.59	Other congenital malformations of abdominal wall	Diagnosis	ICD-10-CM
Diabetes			
249.00	Secondary diabetes mellitus without mention of complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.01	Secondary diabetes mellitus without mention of complication, uncontrolled	Diagnosis	ICD-9-CM
249.10	Secondary diabetes mellitus with ketoacidosis, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	Diagnosis	ICD-9-CM
249.20	Secondary diabetes mellitus with hyperosmolarity, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	Diagnosis	ICD-9-CM
249.30	Secondary diabetes mellitus with other coma, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.31	Secondary diabetes mellitus with other coma, uncontrolled	Diagnosis	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.50	Secondary diabetes mellitus with ophthalmic manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.51	Secondary diabetes mellitus with ophthalmic manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.60	Secondary diabetes mellitus with neurological manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.61	Secondary diabetes mellitus with neurological manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.70	Secondary diabetes mellitus with peripheral circulatory disorders, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.71	Secondary diabetes mellitus with peripheral circulatory disorders, uncontrolled	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
249.80	Secondary diabetes mellitus with other specified manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.81	Secondary diabetes mellitus with other specified manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.90	Secondary diabetes mellitus with unspecified complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.91	Secondary diabetes mellitus with unspecified complication, uncontrolled	Diagnosis	ICD-9-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
357.2	Polyneuropathy in diabetes	Diagnosis	ICD-9-CM
362.01	Background diabetic retinopathy	Diagnosis	ICD-9-CM
362.02	Proliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.03	Nonproliferative diabetic retinopathy NOS	Diagnosis	ICD-9-CM
362.04	Mild nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.05	Moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.06	Severe nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
366.41	Diabetic cataract	Diagnosis	ICD-9-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM

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

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Code	Description	Code Category	Code Type
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM

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

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

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

Code	Description	Code Category	Code Type
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM

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

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

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Code	Description	Code Category	Code Type
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
Urinary Disease			
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
580.4	Acute glomerulonephritis with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
580.81	Acute glomerulonephritis with other specified pathological lesion in kidney in disease classified elsewhere	Diagnosis	ICD-9-CM
581.0	Nephrotic syndrome with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
581.1	Nephrotic syndrome with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
581.2	Nephrotic syndrome with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
581.3	Nephrotic syndrome with lesion of minimal change glomerulonephritis	Diagnosis	ICD-9-CM
581.81	Nephrotic syndrome with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM
581.89	Other nephrotic syndrome with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
581.9	Nephrotic syndrome with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
582.0	Chronic glomerulonephritis with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.1	Chronic glomerulonephritis with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
582.2	Chronic glomerulonephritis with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.4	Chronic glomerulonephritis with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
582.81	Chronic glomerulonephritis with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM
582.89	Other chronic glomerulonephritis with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
582.9	Chronic glomerulonephritis with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
583.0	Nephritis and nephropathy, not specified as acute or chronic, with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
583.1	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
583.2	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
583.4	Nephritis and nephropathy, not specified as acute or chronic, with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
583.81	Nephritis and nephropathy, not specified as acute or chronic, with other specified pathological lesion in kidney, in diseases classified elsewhere	Diagnosis	ICD-9-CM
583.89	Other nephritis and nephropathy, not specified as acute or chronic, with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
583.9	Nephritis and nephropathy, not specified as acute or chronic, with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
585.1	Chronic kidney disease, Stage I	Diagnosis	ICD-9-CM
585.2	Chronic kidney disease, Stage II (mild)	Diagnosis	ICD-9-CM
585.3	Chronic kidney disease, Stage III (moderate)	Diagnosis	ICD-9-CM
585.4	Chronic kidney disease, Stage IV (severe)	Diagnosis	ICD-9-CM
585.5	Chronic kidney disease, Stage V	Diagnosis	ICD-9-CM
585.6	End stage renal disease	Diagnosis	ICD-9-CM
585.9	Chronic kidney disease, unspecified	Diagnosis	ICD-9-CM
586	Unspecified renal failure	Diagnosis	ICD-9-CM
587	Unspecified renal sclerosis	Diagnosis	ICD-9-CM
588.0	Renal osteodystrophy	Diagnosis	ICD-9-CM
588.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-9-CM
588.81	Secondary hyperparathyroidism (of renal origin)	Diagnosis	ICD-9-CM
588.89	Other specified disorders resulting from impaired renal function	Diagnosis	ICD-9-CM
588.9	Unspecified disorder resulting from impaired renal function	Diagnosis	ICD-9-CM
590.81	Pyelitis or pyelonephritis in diseases classified elsewhere	Diagnosis	ICD-9-CM
590.9	Unspecified infection of kidney	Diagnosis	ICD-9-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N25.0	Renal osteodystrophy	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
Obesity			
278.0	Overweight and obesity	Diagnosis	ICD-9-CM
278.00	Obesity, unspecified	Diagnosis	ICD-9-CM
278.01	Morbid obesity	Diagnosis	ICD-9-CM
278.03	Obesity hypoventilation syndrome	Diagnosis	ICD-9-CM
E66.01	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E66.09	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E66.1	Drug-induced obesity	Diagnosis	ICD-10-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
E66.8	Other obesity	Diagnosis	ICD-10-CM
E66.9	Obesity, unspecified	Diagnosis	ICD-10-CM
V85.3	Body Mass Index between 30-39, adult	Diagnosis	ICD-9-CM
V85.30	Body Mass Index 30.0-30.9, adult	Diagnosis	ICD-9-CM
V85.31	Body Mass Index 31.0-31.9, adult	Diagnosis	ICD-9-CM
V85.32	Body Mass Index 32.0-32.9, adult	Diagnosis	ICD-9-CM
V85.33	Body Mass Index 33.0-33.9, adult	Diagnosis	ICD-9-CM
V85.34	Body Mass Index 34.0-34.9, adult	Diagnosis	ICD-9-CM
V85.35	Body Mass Index 35.0-35.9, adult	Diagnosis	ICD-9-CM
V85.36	Body Mass Index 36.0-36.9, adult	Diagnosis	ICD-9-CM
V85.37	Body Mass Index 37.0-37.9, adult	Diagnosis	ICD-9-CM
V85.38	Body Mass Index 38.0-38.9, adult	Diagnosis	ICD-9-CM
V85.39	Body Mass Index 39.0-39.9, adult	Diagnosis	ICD-9-CM
V85.4	Body Mass Index 40 and over, adult	Diagnosis	ICD-9-CM
V85.41	Body Mass Index 40.0-44.9, adult	Diagnosis	ICD-9-CM
V85.42	Body Mass Index 45.0-49.9, adult	Diagnosis	ICD-9-CM
V85.43	Body Mass Index 50.0-59.9, adult	Diagnosis	ICD-9-CM
V85.44	Body Mass Index 60.0-69.9, adult	Diagnosis	ICD-9-CM
V85.45	Body Mass Index 70 and over, adult	Diagnosis	ICD-9-CM
Z68.30	Body mass index [BMI] 30.0-30.9, adult	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Z68.31	Body mass index [BMI] 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index [BMI] 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index [BMI] 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index [BMI] 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z68.35	Body mass index [BMI] 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z68.36	Body mass index [BMI] 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index [BMI] 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index [BMI] 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index [BMI] 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.41	Body mass index [BMI] 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index [BMI] 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index [BMI] 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index [BMI] 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index [BMI] 70 or greater, adult	Diagnosis	ICD-10-CM
Substance Use Disorder			
291.0	Alcohol withdrawal delirium	Diagnosis	ICD-9-CM
291.1	Alcohol-induced persisting amnesic disorder	Diagnosis	ICD-9-CM
291.2	Alcohol-induced persisting dementia	Diagnosis	ICD-9-CM
291.3	Alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM
291.4	Idiosyncratic alcohol intoxication	Diagnosis	ICD-9-CM
291.5	Alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM
291.8	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
291.81	Alcohol withdrawal	Diagnosis	ICD-9-CM
291.82	Alcohol induced sleep disorders	Diagnosis	ICD-9-CM
291.89	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
291.9	Unspecified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
292.0	Drug withdrawal	Diagnosis	ICD-9-CM
292.1	Drug-induced psychotic disorder	Diagnosis	ICD-9-CM
292.11	Drug-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM
292.12	Drug-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM
292.2	Pathological drug intoxication	Diagnosis	ICD-9-CM
292.8	Other specified drug-induced mental disorders	Diagnosis	ICD-9-CM
292.81	Drug-induced delirium	Diagnosis	ICD-9-CM
292.82	Drug-induced persisting dementia	Diagnosis	ICD-9-CM
292.83	Drug-induced persisting amnesic disorder	Diagnosis	ICD-9-CM
292.84	Drug-induced mood disorder	Diagnosis	ICD-9-CM
292.85	Drug induced sleep disorders	Diagnosis	ICD-9-CM
292.89	Other specified drug-induced mental disorder	Diagnosis	ICD-9-CM
292.9	Unspecified drug-induced mental disorder	Diagnosis	ICD-9-CM
303.0	Acute alcoholic intoxication	Diagnosis	ICD-9-CM
303.00	Acute alcoholic intoxication, unspecified	Diagnosis	ICD-9-CM
303.01	Acute alcoholic intoxication, continuous	Diagnosis	ICD-9-CM
303.02	Acute alcoholic intoxication, episodic	Diagnosis	ICD-9-CM
303.03	Acute alcoholic intoxication, in remission	Diagnosis	ICD-9-CM
303.9	Other and unspecified alcohol dependence	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
303.90	Other and unspecified alcohol dependence, unspecified	Diagnosis	ICD-9-CM
303.91	Other and unspecified alcohol dependence, continuous	Diagnosis	ICD-9-CM
303.92	Other and unspecified alcohol dependence, episodic	Diagnosis	ICD-9-CM
303.93	Other and unspecified alcohol dependence, in remission	Diagnosis	ICD-9-CM
304.0	Opioid type dependence	Diagnosis	ICD-9-CM
304.00	Opioid type dependence, unspecified	Diagnosis	ICD-9-CM
304.01	Opioid type dependence, continuous	Diagnosis	ICD-9-CM
304.02	Opioid type dependence, episodic	Diagnosis	ICD-9-CM
304.03	Opioid type dependence, in remission	Diagnosis	ICD-9-CM
304.1	Sedative, hypnotic or anxiolytic dependence	Diagnosis	ICD-9-CM
304.10	Sedative, hypnotic or anxiolytic dependence, unspecified	Diagnosis	ICD-9-CM
304.11	Sedative, hypnotic or anxiolytic dependence, continuous	Diagnosis	ICD-9-CM
304.12	Sedative, hypnotic or anxiolytic dependence, episodic	Diagnosis	ICD-9-CM
304.13	Sedative, hypnotic or anxiolytic dependence, in remission	Diagnosis	ICD-9-CM
304.2	Cocaine dependence	Diagnosis	ICD-9-CM
304.20	Cocaine dependence, unspecified	Diagnosis	ICD-9-CM
304.21	Cocaine dependence, continuous	Diagnosis	ICD-9-CM
304.22	Cocaine dependence, episodic	Diagnosis	ICD-9-CM
304.23	Cocaine dependence, in remission	Diagnosis	ICD-9-CM
304.3	Cannabis dependence	Diagnosis	ICD-9-CM
304.30	Cannabis dependence, unspecified	Diagnosis	ICD-9-CM
304.31	Cannabis dependence, continuous	Diagnosis	ICD-9-CM
304.32	Cannabis dependence, episodic	Diagnosis	ICD-9-CM
304.33	Cannabis dependence, in remission	Diagnosis	ICD-9-CM
304.4	Amphetamine and other psychostimulant dependence	Diagnosis	ICD-9-CM
304.40	Amphetamine and other psychostimulant dependence, unspecified	Diagnosis	ICD-9-CM
304.41	Amphetamine and other psychostimulant dependence, continuous	Diagnosis	ICD-9-CM
304.42	Amphetamine and other psychostimulant dependence, episodic	Diagnosis	ICD-9-CM
304.43	Amphetamine and other psychostimulant dependence, in remission	Diagnosis	ICD-9-CM
304.5	Hallucinogen dependence	Diagnosis	ICD-9-CM
304.50	Hallucinogen dependence, unspecified	Diagnosis	ICD-9-CM
304.51	Hallucinogen dependence, continuous	Diagnosis	ICD-9-CM
304.52	Hallucinogen dependence, episodic	Diagnosis	ICD-9-CM
304.53	Hallucinogen dependence, in remission	Diagnosis	ICD-9-CM
304.6	Other specified drug dependence	Diagnosis	ICD-9-CM
304.60	Other specified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.61	Other specified drug dependence, continuous	Diagnosis	ICD-9-CM
304.62	Other specified drug dependence, episodic	Diagnosis	ICD-9-CM
304.63	Other specified drug dependence, in remission	Diagnosis	ICD-9-CM
304.7	Combinations of opioid type drug with any other drug dependence	Diagnosis	ICD-9-CM
304.70	Combinations of opioid type drug with any other drug dependence, unspecified	Diagnosis	ICD-9-CM
304.71	Combinations of opioid type drug with any other drug dependence, continuous	Diagnosis	ICD-9-CM
304.72	Combinations of opioid type drug with any other drug dependence, episodic	Diagnosis	ICD-9-CM
304.73	Combinations of opioid type drug with any other drug dependence, in remission	Diagnosis	ICD-9-CM
304.8	Combinations of drug dependence excluding opioid type drug	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
304.80	Combinations of drug dependence excluding opioid type drug, unspecified	Diagnosis	ICD-9-CM
304.81	Combinations of drug dependence excluding opioid type drug, continuous	Diagnosis	ICD-9-CM
304.82	Combinations of drug dependence excluding opioid type drug, episodic	Diagnosis	ICD-9-CM
304.83	Combinations of drug dependence excluding opioid type drug, in remission	Diagnosis	ICD-9-CM
304.9	Unspecified drug dependence	Diagnosis	ICD-9-CM
304.90	Unspecified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.91	Unspecified drug dependence, continuous	Diagnosis	ICD-9-CM
304.92	Unspecified drug dependence, episodic	Diagnosis	ICD-9-CM
304.93	Unspecified drug dependence, in remission	Diagnosis	ICD-9-CM
305.0	Nondependent alcohol abuse	Diagnosis	ICD-9-CM
305.00	Nondependent alcohol abuse, unspecified	Diagnosis	ICD-9-CM
305.01	Nondependent alcohol abuse, continuous	Diagnosis	ICD-9-CM
305.02	Nondependent alcohol abuse, episodic	Diagnosis	ICD-9-CM
305.03	Nondependent alcohol abuse, in remission	Diagnosis	ICD-9-CM
305.2	Nondependent cannabis abuse	Diagnosis	ICD-9-CM
305.20	Nondependent cannabis abuse, unspecified	Diagnosis	ICD-9-CM
305.21	Nondependent cannabis abuse, continuous	Diagnosis	ICD-9-CM
305.22	Nondependent cannabis abuse, episodic	Diagnosis	ICD-9-CM
305.23	Nondependent cannabis abuse, in remission	Diagnosis	ICD-9-CM
305.3	Nondependent hallucinogen abuse	Diagnosis	ICD-9-CM
305.30	Nondependent hallucinogen abuse, unspecified	Diagnosis	ICD-9-CM
305.31	Nondependent hallucinogen abuse, continuous	Diagnosis	ICD-9-CM
305.32	Nondependent hallucinogen abuse, episodic	Diagnosis	ICD-9-CM
305.33	Nondependent hallucinogen abuse, in remission	Diagnosis	ICD-9-CM
305.4	Nondependent sedative, hypnotic or anxiolytic abuse	Diagnosis	ICD-9-CM
305.40	Nondependent sedative, hypnotic or anxiolytic abuse, unspecified	Diagnosis	ICD-9-CM
305.41	Nondependent sedative hypnotic or anxiolytic abuse, continuous	Diagnosis	ICD-9-CM
305.42	Nondependent sedative, hypnotic or anxiolytic abuse, episodic	Diagnosis	ICD-9-CM
305.43	Nondependent sedative, hypnotic or anxiolytic abuse, in remission	Diagnosis	ICD-9-CM
305.5	Nondependent opioid abuse	Diagnosis	ICD-9-CM
305.50	Nondependent opioid abuse, unspecified	Diagnosis	ICD-9-CM
305.51	Nondependent opioid abuse, continuous	Diagnosis	ICD-9-CM
305.52	Nondependent opioid abuse, episodic	Diagnosis	ICD-9-CM
305.53	Nondependent opioid abuse, in remission	Diagnosis	ICD-9-CM
305.6	Nondependent cocaine abuse	Diagnosis	ICD-9-CM
305.60	Nondependent cocaine abuse, unspecified	Diagnosis	ICD-9-CM
305.61	Nondependent cocaine abuse, continuous	Diagnosis	ICD-9-CM
305.62	Nondependent cocaine abuse, episodic	Diagnosis	ICD-9-CM
305.63	Nondependent cocaine abuse, in remission	Diagnosis	ICD-9-CM
305.7	Nondependent amphetamine or related acting sympathomimetic abuse	Diagnosis	ICD-9-CM
305.70	Nondependent amphetamine or related acting sympathomimetic abuse, unspecified	Diagnosis	ICD-9-CM
305.71	Nondependent amphetamine or related acting sympathomimetic abuse, continuous	Diagnosis	ICD-9-CM
305.72	Nondependent amphetamine or related acting sympathomimetic abuse, episodic	Diagnosis	ICD-9-CM
305.73	Nondependent amphetamine or related acting sympathomimetic abuse, in remission	Diagnosis	ICD-9-CM
305.8	Nondependent antidepressant type abuse	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
305.80	Nondependent antidepressant type abuse, unspecified	Diagnosis	ICD-9-CM
305.81	Nondependent antidepressant type abuse, continuous	Diagnosis	ICD-9-CM
305.82	Nondependent antidepressant type abuse, episodic	Diagnosis	ICD-9-CM
305.83	Nondependent antidepressant type abuse, in remission	Diagnosis	ICD-9-CM
305.9	Other, mixed, or unspecified nondependent drug abuse	Diagnosis	ICD-9-CM
305.90	Other, mixed, or unspecified nondependent drug abuse, unspecified	Diagnosis	ICD-9-CM
305.91	Other, mixed, or unspecified nondependent drug abuse, continuous	Diagnosis	ICD-9-CM
305.92	Other, mixed, or unspecified nondependent drug abuse, episodic	Diagnosis	ICD-9-CM
305.93	Other, mixed, or unspecified nondependent drug abuse, in remission	Diagnosis	ICD-9-CM
357.5	Alcoholic polyneuropathy	Diagnosis	ICD-9-CM
425.5	Alcoholic cardiomyopathy	Diagnosis	ICD-9-CM
535.3	Alcoholic gastritis	Diagnosis	ICD-9-CM
535.30	Alcoholic gastritis without mention of hemorrhage	Diagnosis	ICD-9-CM
535.31	Alcoholic gastritis with hemorrhage	Diagnosis	ICD-9-CM
571.0	Alcoholic fatty liver	Diagnosis	ICD-9-CM
571.1	Acute alcoholic hepatitis	Diagnosis	ICD-9-CM
571.2	Alcoholic cirrhosis of liver	Diagnosis	ICD-9-CM
571.3	Unspecified alcoholic liver damage	Diagnosis	ICD-9-CM
648.3	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
648.30	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	Diagnosis	ICD-9-CM
648.31	Maternal drug dependence, with delivery	Diagnosis	ICD-9-CM
648.32	Maternal drug dependence, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.33	Maternal drug dependence, antepartum	Diagnosis	ICD-9-CM
648.34	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
790.3	Excessive blood level of alcohol	Diagnosis	ICD-9-CM
94.46	Alcoholism counseling	Procedure	ICD-9-CM
94.53	Referral for alcoholism rehabilitation	Procedure	ICD-9-CM
94.6	Alcohol and drug rehabilitation and detoxification	Procedure	ICD-9-CM
94.61	Alcohol rehabilitation	Procedure	ICD-9-CM
94.62	Alcohol detoxification	Procedure	ICD-9-CM
94.63	Alcohol rehabilitation and detoxification	Procedure	ICD-9-CM
94.67	Combined alcohol and drug rehabilitation	Procedure	ICD-9-CM
94.68	Combined alcohol and drug detoxification	Procedure	ICD-9-CM
94.69	Combined alcohol and drug rehabilitation and detoxification	Procedure	ICD-9-CM
E860.0	Accidental poisoning by alcoholic beverages	Diagnosis	ICD-9-CM
F10	Alcohol related disorders	Diagnosis	ICD-10-CM
F10.1	Alcohol abuse	Diagnosis	ICD-10-CM
F10.10	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F10.11	Alcohol abuse, in remission	Diagnosis	ICD-10-CM
F10.12	Alcohol abuse with intoxication	Diagnosis	ICD-10-CM
F10.120	Alcohol abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.121	Alcohol abuse with intoxication delirium	Diagnosis	ICD-10-CM
F10.129	Alcohol abuse with intoxication, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F10.14	Alcohol abuse with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.15	Alcohol abuse with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.151	Alcohol abuse with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.159	Alcohol abuse with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.18	Alcohol abuse with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.180	Alcohol abuse with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.181	Alcohol abuse with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.182	Alcohol abuse with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.188	Alcohol abuse with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.19	Alcohol abuse with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.2	Alcohol dependence	Diagnosis	ICD-10-CM
F10.20	Alcohol dependence, uncomplicated	Diagnosis	ICD-10-CM
F10.21	Alcohol dependence, in remission	Diagnosis	ICD-10-CM
F10.22	Alcohol dependence with intoxication	Diagnosis	ICD-10-CM
F10.220	Alcohol dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.221	Alcohol dependence with intoxication delirium	Diagnosis	ICD-10-CM
F10.229	Alcohol dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.23	Alcohol dependence with withdrawal	Diagnosis	ICD-10-CM
F10.230	Alcohol dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.231	Alcohol dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F10.232	Alcohol dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.239	Alcohol dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.24	Alcohol dependence with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.25	Alcohol dependence with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.250	Alcohol dependence with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.251	Alcohol dependence with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.259	Alcohol dependence with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.26	Alcohol dependence with alcohol-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F10.27	Alcohol dependence with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.28	Alcohol dependence with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.280	Alcohol dependence with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.281	Alcohol dependence with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.282	Alcohol dependence with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.288	Alcohol dependence with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.29	Alcohol dependence with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.9	Alcohol use, unspecified	Diagnosis	ICD-10-CM
F10.92	Alcohol use, unspecified with intoxication	Diagnosis	ICD-10-CM
F10.920	Alcohol use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.921	Alcohol use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F10.929	Alcohol use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.94	Alcohol use, unspecified with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.95	Alcohol use, unspecified with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.950	Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F10.951	Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.959	Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.96	Alcohol use, unspecified with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.98	Alcohol use, unspecified with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F11	Opioid related disorders	Diagnosis	ICD-10-CM
F11.1	Opioid abuse	Diagnosis	ICD-10-CM
F11.10	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F11.11	Opioid abuse, in remission	Diagnosis	ICD-10-CM
F11.12	Opioid abuse with intoxication	Diagnosis	ICD-10-CM
F11.120	Opioid abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.121	Opioid abuse with intoxication delirium	Diagnosis	ICD-10-CM
F11.122	Opioid abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.129	Opioid abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.14	Opioid abuse with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.15	Opioid abuse with opioid-induced psychotic disorder	Diagnosis	ICD-10-CM
F11.150	Opioid abuse with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.151	Opioid abuse with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.159	Opioid abuse with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.18	Opioid abuse with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.181	Opioid abuse with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.182	Opioid abuse with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.188	Opioid abuse with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.19	Opioid abuse with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.2	Opioid dependence	Diagnosis	ICD-10-CM
F11.20	Opioid dependence, uncomplicated	Diagnosis	ICD-10-CM
F11.21	Opioid dependence, in remission	Diagnosis	ICD-10-CM
F11.22	Opioid dependence with intoxication	Diagnosis	ICD-10-CM
F11.220	Opioid dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.221	Opioid dependence with intoxication delirium	Diagnosis	ICD-10-CM
F11.222	Opioid dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.229	Opioid dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.23	Opioid dependence with withdrawal	Diagnosis	ICD-10-CM
F11.24	Opioid dependence with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.25	Opioid dependence with opioid-induced psychotic disorder	Diagnosis	ICD-10-CM
F11.250	Opioid dependence with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.251	Opioid dependence with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.259	Opioid dependence with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.28	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F11.281	Opioid dependence with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.288	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.29	Opioid dependence with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.9	Opioid use, unspecified	Diagnosis	ICD-10-CM
F11.90	Opioid use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F11.92	Opioid use, unspecified with intoxication	Diagnosis	ICD-10-CM
F11.920	Opioid use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.921	Opioid use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F11.922	Opioid use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.929	Opioid use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.93	Opioid use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F11.94	Opioid use, unspecified with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.95	Opioid use, unspecified with opioid-induced psychotic disorder	Diagnosis	ICD-10-CM
F11.950	Opioid use, unspecified with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.951	Opioid use, unspecified with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.959	Opioid use, unspecified with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.98	Opioid use, unspecified with other specified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.981	Opioid use, unspecified with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.982	Opioid use, unspecified with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.988	Opioid use, unspecified with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.99	Opioid use, unspecified with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F12	Cannabis related disorders	Diagnosis	ICD-10-CM
F12.1	Cannabis abuse	Diagnosis	ICD-10-CM
F12.10	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F12.11	Cannabis abuse, in remission	Diagnosis	ICD-10-CM
F12.12	Cannabis abuse with intoxication	Diagnosis	ICD-10-CM
F12.120	Cannabis abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.121	Cannabis abuse with intoxication delirium	Diagnosis	ICD-10-CM
F12.122	Cannabis abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.129	Cannabis abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.15	Cannabis abuse with psychotic disorder	Diagnosis	ICD-10-CM
F12.150	Cannabis abuse with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.151	Cannabis abuse with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.159	Cannabis abuse with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.18	Cannabis abuse with cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.180	Cannabis abuse with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.188	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.19	Cannabis abuse with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.2	Cannabis dependence	Diagnosis	ICD-10-CM
F12.20	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F12.21	Cannabis dependence, in remission	Diagnosis	ICD-10-CM
F12.22	Cannabis dependence with intoxication	Diagnosis	ICD-10-CM
F12.220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F12.222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.23	Cannabis dependence with withdrawal	Diagnosis	ICD-10-CM
F12.25	Cannabis dependence with psychotic disorder	Diagnosis	ICD-10-CM
F12.250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.28	Cannabis dependence with cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.29	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.9	Cannabis use, unspecified	Diagnosis	ICD-10-CM
F12.90	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F12.92	Cannabis use, unspecified with intoxication	Diagnosis	ICD-10-CM
F12.920	Cannabis use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.921	Cannabis use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F12.922	Cannabis use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.929	Cannabis use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.93	Cannabis use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F12.95	Cannabis use, unspecified with psychotic disorder	Diagnosis	ICD-10-CM
F12.950	Cannabis use, unspecified with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.951	Cannabis use, unspecified with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.959	Cannabis use, unspecified with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.98	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.980	Cannabis use, unspecified with anxiety disorder	Diagnosis	ICD-10-CM
F12.988	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.99	Cannabis use, unspecified with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F13	Sedative, hypnotic, or anxiolytic related disorders	Diagnosis	ICD-10-CM
F13.1	Sedative, hypnotic or anxiolytic-related abuse	Diagnosis	ICD-10-CM
F13.10	Sedative, hypnotic or anxiolytic abuse, uncomplicated	Diagnosis	ICD-10-CM
F13.11	Sedative, hypnotic or anxiolytic abuse, in remission	Diagnosis	ICD-10-CM
F13.12	Sedative, hypnotic or anxiolytic abuse with intoxication	Diagnosis	ICD-10-CM
F13.120	Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.121	Sedative, hypnotic or anxiolytic abuse with intoxication delirium	Diagnosis	ICD-10-CM
F13.129	Sedative, hypnotic or anxiolytic abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.14	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.15	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder	Diagnosis	ICD-10-CM
F13.150	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.151	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.159	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F13.18	Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorders	Diagnosis	ICD-10-CM
F13.180	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.181	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.182	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.188	Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.19	Sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.2	Sedative, hypnotic or anxiolytic-related dependence	Diagnosis	ICD-10-CM
F13.20	Sedative, hypnotic or anxiolytic dependence, uncomplicated	Diagnosis	ICD-10-CM
F13.21	Sedative, hypnotic or anxiolytic dependence, in remission	Diagnosis	ICD-10-CM
F13.22	Sedative, hypnotic or anxiolytic dependence with intoxication	Diagnosis	ICD-10-CM
F13.220	Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.221	Sedative, hypnotic or anxiolytic dependence with intoxication delirium	Diagnosis	ICD-10-CM
F13.229	Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.23	Sedative, hypnotic or anxiolytic dependence with withdrawal	Diagnosis	ICD-10-CM
F13.230	Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.231	Sedative, hypnotic or anxiolytic dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F13.232	Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13.239	Sedative, hypnotic or anxiolytic dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.24	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.25	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder	Diagnosis	ICD-10-CM
F13.250	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.251	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.259	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.26	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F13.27	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.28	Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorders	Diagnosis	ICD-10-CM
F13.280	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.281	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F13.282	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.288	Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.29	Sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.9	Sedative, hypnotic or anxiolytic-related use, unspecified	Diagnosis	ICD-10-CM
F13.90	Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F13.92	Sedative, hypnotic or anxiolytic use, unspecified with intoxication	Diagnosis	ICD-10-CM
F13.920	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.921	Sedative, hypnotic or anxiolytic use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F13.929	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.93	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F13.930	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.931	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F13.932	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal with perceptual disturbances	Diagnosis	ICD-10-CM
F13.939	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.94	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.95	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder	Diagnosis	ICD-10-CM
F13.950	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.951	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.959	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.96	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F13.97	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.98	Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorders	Diagnosis	ICD-10-CM
F13.980	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.981	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.982	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.988	Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.99	Sedative, hypnotic or anxiolytic use, unspecified with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F14	Cocaine related disorders	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F14.1	Cocaine abuse	Diagnosis	ICD-10-CM
F14.10	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F14.11	Cocaine abuse, in remission	Diagnosis	ICD-10-CM
F14.12	Cocaine abuse with intoxication	Diagnosis	ICD-10-CM
F14.120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.121	Cocaine abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F14.122	Cocaine abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.129	Cocaine abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.14	Cocaine abuse with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.15	Cocaine abuse with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.18	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.180	Cocaine abuse with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.181	Cocaine abuse with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.188	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.19	Cocaine abuse with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.2	Cocaine dependence	Diagnosis	ICD-10-CM
F14.20	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F14.21	Cocaine dependence, in remission	Diagnosis	ICD-10-CM
F14.22	Cocaine dependence with intoxication	Diagnosis	ICD-10-CM
F14.220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM
F14.222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.23	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F14.24	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.25	Cocaine dependence with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.28	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.29	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.9	Cocaine use, unspecified	Diagnosis	ICD-10-CM
F14.90	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F14.92	Cocaine use, unspecified with intoxication	Diagnosis	ICD-10-CM
F14.920	Cocaine use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.921	Cocaine use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F14.922	Cocaine use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F14.929	Cocaine use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.94	Cocaine use, unspecified with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.95	Cocaine use, unspecified with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.950	Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.951	Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.959	Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.98	Cocaine use, unspecified with other specified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.980	Cocaine use, unspecified with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.981	Cocaine use, unspecified with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.988	Cocaine use, unspecified with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.99	Cocaine use, unspecified with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F15	Other stimulant related disorders	Diagnosis	ICD-10-CM
F15.1	Other stimulant abuse	Diagnosis	ICD-10-CM
F15.10	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F15.11	Other stimulant abuse, in remission	Diagnosis	ICD-10-CM
F15.12	Other stimulant abuse with intoxication	Diagnosis	ICD-10-CM
F15.120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.121	Other stimulant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F15.122	Other stimulant abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.129	Other stimulant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.14	Other stimulant abuse with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.15	Other stimulant abuse with stimulant-induced psychotic disorder	Diagnosis	ICD-10-CM
F15.150	Other stimulant abuse with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.151	Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.159	Other stimulant abuse with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.18	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.180	Other stimulant abuse with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.181	Other stimulant abuse with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.188	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.19	Other stimulant abuse with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.2	Other stimulant dependence	Diagnosis	ICD-10-CM
F15.20	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F15.21	Other stimulant dependence, in remission	Diagnosis	ICD-10-CM
F15.22	Other stimulant dependence with intoxication	Diagnosis	ICD-10-CM
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.25	Other stimulant dependence with stimulant-induced psychotic disorder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.28	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.9	Other stimulant use, unspecified	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.92	Other stimulant use, unspecified with intoxication	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F15.94	Other stimulant use, unspecified with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.95	Other stimulant use, unspecified with stimulant-induced psychotic disorder	Diagnosis	ICD-10-CM
F15.950	Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.951	Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.959	Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.98	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.980	Other stimulant use, unspecified with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.981	Other stimulant use, unspecified with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.988	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.99	Other stimulant use, unspecified with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F16	Hallucinogen related disorders	Diagnosis	ICD-10-CM
F16.1	Hallucinogen abuse	Diagnosis	ICD-10-CM
F16.10	Hallucinogen abuse, uncomplicated	Diagnosis	ICD-10-CM
F16.11	Hallucinogen abuse, in remission	Diagnosis	ICD-10-CM
F16.12	Hallucinogen abuse with intoxication	Diagnosis	ICD-10-CM
F16.120	Hallucinogen abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.121	Hallucinogen abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F16.122	Hallucinogen abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F16.129	Hallucinogen abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.14	Hallucinogen abuse with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.15	Hallucinogen abuse with hallucinogen-induced psychotic disorder	Diagnosis	ICD-10-CM
F16.150	Hallucinogen abuse with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F16.151	Hallucinogen abuse with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.159	Hallucinogen abuse with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.18	Hallucinogen abuse with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.180	Hallucinogen abuse with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.183	Hallucinogen abuse with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.188	Hallucinogen abuse with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.19	Hallucinogen abuse with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.2	Hallucinogen dependence	Diagnosis	ICD-10-CM
F16.20	Hallucinogen dependence, uncomplicated	Diagnosis	ICD-10-CM
F16.21	Hallucinogen dependence, in remission	Diagnosis	ICD-10-CM
F16.22	Hallucinogen dependence with intoxication	Diagnosis	ICD-10-CM
F16.220	Hallucinogen dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.221	Hallucinogen dependence with intoxication with delirium	Diagnosis	ICD-10-CM
F16.229	Hallucinogen dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.24	Hallucinogen dependence with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.25	Hallucinogen dependence with hallucinogen-induced psychotic disorder	Diagnosis	ICD-10-CM
F16.250	Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.251	Hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.259	Hallucinogen dependence with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.28	Hallucinogen dependence with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.280	Hallucinogen dependence with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.283	Hallucinogen dependence with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.288	Hallucinogen dependence with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.29	Hallucinogen dependence with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.9	Hallucinogen use, unspecified	Diagnosis	ICD-10-CM
F16.90	Hallucinogen use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F16.92	Hallucinogen use, unspecified with intoxication	Diagnosis	ICD-10-CM
F16.920	Hallucinogen use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.921	Hallucinogen use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F16.929	Hallucinogen use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.94	Hallucinogen use, unspecified with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.95	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder	Diagnosis	ICD-10-CM
F16.950	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.951	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.959	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.98	Hallucinogen use, unspecified with other specified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.980	Hallucinogen use, unspecified with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F16.983	Hallucinogen use, unspecified with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.988	Hallucinogen use, unspecified with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.99	Hallucinogen use, unspecified with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F18	Inhalant related disorders	Diagnosis	ICD-10-CM
F18.1	Inhalant abuse	Diagnosis	ICD-10-CM
F18.10	Inhalant abuse, uncomplicated	Diagnosis	ICD-10-CM
F18.11	Inhalant abuse, in remission	Diagnosis	ICD-10-CM
F18.12	Inhalant abuse with intoxication	Diagnosis	ICD-10-CM
F18.120	Inhalant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.121	Inhalant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F18.129	Inhalant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.14	Inhalant abuse with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.15	Inhalant abuse with inhalant-induced psychotic disorder	Diagnosis	ICD-10-CM
F18.150	Inhalant abuse with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.151	Inhalant abuse with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.159	Inhalant abuse with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.17	Inhalant abuse with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.18	Inhalant abuse with other inhalant-induced disorders	Diagnosis	ICD-10-CM
F18.180	Inhalant abuse with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.188	Inhalant abuse with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.19	Inhalant abuse with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.2	Inhalant dependence	Diagnosis	ICD-10-CM
F18.20	Inhalant dependence, uncomplicated	Diagnosis	ICD-10-CM
F18.21	Inhalant dependence, in remission	Diagnosis	ICD-10-CM
F18.22	Inhalant dependence with intoxication	Diagnosis	ICD-10-CM
F18.220	Inhalant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.221	Inhalant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F18.229	Inhalant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.24	Inhalant dependence with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.25	Inhalant dependence with inhalant-induced psychotic disorder	Diagnosis	ICD-10-CM
F18.250	Inhalant dependence with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.251	Inhalant dependence with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.259	Inhalant dependence with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.27	Inhalant dependence with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.28	Inhalant dependence with other inhalant-induced disorders	Diagnosis	ICD-10-CM
F18.280	Inhalant dependence with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.288	Inhalant dependence with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.29	Inhalant dependence with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.9	Inhalant use, unspecified	Diagnosis	ICD-10-CM
F18.90	Inhalant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F18.92	Inhalant use, unspecified with intoxication	Diagnosis	ICD-10-CM
F18.920	Inhalant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.921	Inhalant use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F18.929	Inhalant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F18.94	Inhalant use, unspecified with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.95	Inhalant use, unspecified with inhalant-induced psychotic disorder	Diagnosis	ICD-10-CM
F18.950	Inhalant use, unspecified with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.951	Inhalant use, unspecified with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.959	Inhalant use, unspecified with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.97	Inhalant use, unspecified with inhalant-induced persisting dementia	Diagnosis	ICD-10-CM
F18.98	Inhalant use, unspecified with other inhalant-induced disorders	Diagnosis	ICD-10-CM
F18.980	Inhalant use, unspecified with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.988	Inhalant use, unspecified with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.99	Inhalant use, unspecified with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F19	Other psychoactive substance related disorders	Diagnosis	ICD-10-CM
F19.1	Other psychoactive substance abuse	Diagnosis	ICD-10-CM
F19.10	Other psychoactive substance abuse, uncomplicated	Diagnosis	ICD-10-CM
F19.11	Other psychoactive substance abuse, in remission	Diagnosis	ICD-10-CM
F19.12	Other psychoactive substance abuse with intoxication	Diagnosis	ICD-10-CM
F19.120	Other psychoactive substance abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.121	Other psychoactive substance abuse with intoxication delirium	Diagnosis	ICD-10-CM
F19.122	Other psychoactive substance abuse with intoxication with perceptual disturbances	Diagnosis	ICD-10-CM
F19.129	Other psychoactive substance abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.14	Other psychoactive substance abuse with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.15	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder	Diagnosis	ICD-10-CM
F19.150	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.151	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.159	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.16	Other psychoactive substance abuse with psychoactive substance-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F19.17	Other psychoactive substance abuse with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.18	Other psychoactive substance abuse with other psychoactive substance-induced disorders	Diagnosis	ICD-10-CM
F19.180	Other psychoactive substance abuse with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.181	Other psychoactive substance abuse with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.182	Other psychoactive substance abuse with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.188	Other psychoactive substance abuse with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F19.19	Other psychoactive substance abuse with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.2	Other psychoactive substance dependence	Diagnosis	ICD-10-CM
F19.20	Other psychoactive substance dependence, uncomplicated	Diagnosis	ICD-10-CM
F19.21	Other psychoactive substance dependence, in remission	Diagnosis	ICD-10-CM
F19.22	Other psychoactive substance dependence with intoxication	Diagnosis	ICD-10-CM
F19.220	Other psychoactive substance dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.221	Other psychoactive substance dependence with intoxication delirium	Diagnosis	ICD-10-CM
F19.222	Other psychoactive substance dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.229	Other psychoactive substance dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.23	Other psychoactive substance dependence with withdrawal	Diagnosis	ICD-10-CM
F19.230	Other psychoactive substance dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.231	Other psychoactive substance dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F19.232	Other psychoactive substance dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.239	Other psychoactive substance dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.24	Other psychoactive substance dependence with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.25	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder	Diagnosis	ICD-10-CM
F19.250	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.251	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.259	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.26	Other psychoactive substance dependence with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F19.27	Other psychoactive substance dependence with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.28	Other psychoactive substance dependence with other psychoactive substance-induced disorders	Diagnosis	ICD-10-CM
F19.280	Other psychoactive substance dependence with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.281	Other psychoactive substance dependence with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.282	Other psychoactive substance dependence with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.288	Other psychoactive substance dependence with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.29	Other psychoactive substance dependence with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.9	Other psychoactive substance use, unspecified	Diagnosis	ICD-10-CM
F19.90	Other psychoactive substance use, unspecified, uncomplicated	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F19.92	Other psychoactive substance use, unspecified with intoxication	Diagnosis	ICD-10-CM
F19.920	Other psychoactive substance use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.921	Other psychoactive substance use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F19.922	Other psychoactive substance use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.929	Other psychoactive substance use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.93	Other psychoactive substance use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F19.930	Other psychoactive substance use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.931	Other psychoactive substance use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F19.932	Other psychoactive substance use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.939	Other psychoactive substance use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.94	Other psychoactive substance use, unspecified with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.95	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder	Diagnosis	ICD-10-CM
F19.950	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.951	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.959	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.96	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F19.97	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.98	Other psychoactive substance use, unspecified with other psychoactive substance-induced disorders	Diagnosis	ICD-10-CM
F19.980	Other psychoactive substance use, unspecified with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.981	Other psychoactive substance use, unspecified with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.982	Other psychoactive substance use, unspecified with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.988	Other psychoactive substance use, unspecified with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.99	Other psychoactive substance use, unspecified with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F55.0	Abuse of antacids	Diagnosis	ICD-10-CM
F55.1	Abuse of herbal or folk remedies	Diagnosis	ICD-10-CM
F55.2	Abuse of laxatives	Diagnosis	ICD-10-CM
F55.3	Abuse of steroids or hormones	Diagnosis	ICD-10-CM
F55.4	Abuse of vitamins	Diagnosis	ICD-10-CM
F55.8	Abuse of other non-psychoactive substances	Diagnosis	ICD-10-CM
G62.1	Alcoholic polyneuropathy	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
HZ2ZZZZ	Detoxification Services for Substance Abuse Treatment	Procedure	ICD-10-PCS
HZ30ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ31ZZZ	Individual Counseling for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ32ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ33ZZZ	Individual Counseling for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ34ZZZ	Individual Counseling for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ35ZZZ	Individual Counseling for Substance Abuse Treatment, Vocational	Procedure	ICD-10-PCS
HZ36ZZZ	Individual Counseling for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ37ZZZ	Individual Counseling for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ38ZZZ	Individual Counseling for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ39ZZZ	Individual Counseling for Substance Abuse Treatment, Continuing Care	Procedure	ICD-10-PCS
HZ3BZZZ	Individual Counseling for Substance Abuse Treatment, Spiritual	Procedure	ICD-10-PCS
HZ40ZZZ	Group Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ41ZZZ	Group Counseling for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ42ZZZ	Group Counseling for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ43ZZZ	Group Counseling for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ44ZZZ	Group Counseling for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ45ZZZ	Group Counseling for Substance Abuse Treatment, Vocational	Procedure	ICD-10-PCS
HZ46ZZZ	Group Counseling for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ47ZZZ	Group Counseling for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ48ZZZ	Group Counseling for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ49ZZZ	Group Counseling for Substance Abuse Treatment, Continuing Care	Procedure	ICD-10-PCS
HZ4BZZZ	Group Counseling for Substance Abuse Treatment, Spiritual	Procedure	ICD-10-PCS
HZ50ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ51ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ52ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ53ZZZ	Individual Psychotherapy for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ54ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ55ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Interactive	Procedure	ICD-10-PCS
HZ56ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ57ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ58ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ59ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Supportive	Procedure	ICD-10-PCS
HZ5BZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychoanalysis	Procedure	ICD-10-PCS
HZ5CZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychodynamic	Procedure	ICD-10-PCS
HZ5DZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychophysiological	Procedure	ICD-10-PCS
HZ63ZZZ	Family Counseling for Substance Abuse Treatment	Procedure	ICD-10-PCS
HZ83ZZZ	Medication Management for Substance Abuse Treatment, Antabuse	Procedure	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ88ZZZ	Medication Management for Substance Abuse Treatment, Psychiatric Medication	Procedure	ICD-10-PCS
HZ89ZZZ	Medication Management for Substance Abuse Treatment, Other Replacement Medication	Procedure	ICD-10-PCS
HZ93ZZZ	Pharmacotherapy for Substance Abuse Treatment, Antabuse	Procedure	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ98ZZZ	Pharmacotherapy for Substance Abuse Treatment, Psychiatric Medication	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
HZ99ZZZ	Pharmacotherapy for Substance Abuse Treatment, Other Replacement Medication	Procedure	ICD-10-PCS
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
K29.20	Alcoholic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	Diagnosis	ICD-10-CM
K70.0	Alcoholic fatty liver	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K70.2	Alcoholic fibrosis and sclerosis of liver	Diagnosis	ICD-10-CM
K70.30	Alcoholic cirrhosis of liver without ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K70.9	Alcoholic liver disease, unspecified	Diagnosis	ICD-10-CM
O99.320	Drug use complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.321	Drug use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.322	Drug use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.323	Drug use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99.325	Drug use complicating the puerperium	Diagnosis	ICD-10-CM
R78.0	Finding of alcohol in blood	Diagnosis	ICD-10-CM
V11.3	Personal history of alcoholism	Diagnosis	ICD-9-CM
Z65.8	Other specified problems related to psychosocial circumstances	Diagnosis	ICD-10-CM
Psychiatric and neurological conditions			
293.84	Anxiety disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
295	Schizophrenic disorders	Diagnosis	ICD-9-CM
295.0	Simple type schizophrenia	Diagnosis	ICD-9-CM
295.00	Simple schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.01	Simple schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.02	Simple schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.03	Simple schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.04	Simple schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.05	Simple schizophrenia, in remission	Diagnosis	ICD-9-CM
295.1	Disorganized type schizophrenia	Diagnosis	ICD-9-CM
295.10	Disorganized schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.11	Disorganized schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.12	Disorganized schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.13	Disorganized schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.14	Disorganized schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.15	Disorganized schizophrenia, in remission	Diagnosis	ICD-9-CM
295.2	Catatonic type schizophrenia	Diagnosis	ICD-9-CM
295.20	Catatonic schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.21	Catatonic schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.22	Catatonic schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.23	Catatonic schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.24	Catatonic schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
295.25	Catatonic schizophrenia, in remission	Diagnosis	ICD-9-CM
295.3	Paranoid type schizophrenia	Diagnosis	ICD-9-CM
295.30	Paranoid schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.31	Paranoid schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.32	Paranoid schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.33	Paranoid schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.34	Paranoid schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.35	Paranoid schizophrenia, in remission	Diagnosis	ICD-9-CM
295.4	Schizophreniform disorder	Diagnosis	ICD-9-CM
295.40	Schizophreniform disorder, unspecified	Diagnosis	ICD-9-CM
295.41	Schizophreniform disorder, subchronic	Diagnosis	ICD-9-CM
295.42	Schizophreniform disorder, chronic	Diagnosis	ICD-9-CM
295.43	Schizophreniform disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.44	Schizophreniform disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.45	Schizophreniform disorder, in remission	Diagnosis	ICD-9-CM
295.5	Latent schizophrenia	Diagnosis	ICD-9-CM
295.50	Latent schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.51	Latent schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.52	Latent schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.53	Latent schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.54	Latent schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.55	Latent schizophrenia, in remission	Diagnosis	ICD-9-CM
295.6	Schizophrenic disorders, residual type	Diagnosis	ICD-9-CM
295.60	Schizophrenic disorders, residual type, unspecified	Diagnosis	ICD-9-CM
295.61	Schizophrenic disorders, residual type, subchronic	Diagnosis	ICD-9-CM
295.62	Schizophrenic disorders, residual type, chronic	Diagnosis	ICD-9-CM
295.63	Schizophrenic disorders, residual type, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.64	Schizophrenic disorders, residual type, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.65	Schizophrenic disorders, residual type, in remission	Diagnosis	ICD-9-CM
295.7	Schizoaffective disorder	Diagnosis	ICD-9-CM
295.70	Schizoaffective disorder, unspecified	Diagnosis	ICD-9-CM
295.71	Schizoaffective disorder, subchronic	Diagnosis	ICD-9-CM
295.72	Schizoaffective disorder, chronic	Diagnosis	ICD-9-CM
295.73	Schizoaffective disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.74	Schizoaffective disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.75	Schizoaffective disorder, in remission	Diagnosis	ICD-9-CM
295.8	Other specified types of schizophrenia	Diagnosis	ICD-9-CM
295.80	Other specified types of schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.81	Other specified types of schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.82	Other specified types of schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.83	Other specified types of schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.84	Other specified types of schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.85	Other specified types of schizophrenia, in remission	Diagnosis	ICD-9-CM
295.9	Unspecified schizophrenia	Diagnosis	ICD-9-CM
295.90	Unspecified schizophrenia, unspecified condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
295.91	Unspecified schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.92	Unspecified schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.93	Unspecified schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.94	Unspecified schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.95	Unspecified schizophrenia, in remission	Diagnosis	ICD-9-CM
296.0	Bipolar I disorder, single manic episode	Diagnosis	ICD-9-CM
296.00	Bipolar I disorder, single manic episode, unspecified	Diagnosis	ICD-9-CM
296.01	Bipolar I disorder, single manic episode, mild	Diagnosis	ICD-9-CM
296.02	Bipolar I disorder, single manic episode, moderate	Diagnosis	ICD-9-CM
296.03	Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.04	Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.05	Bipolar I disorder, single manic episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.06	Bipolar I disorder, single manic episode, in full remission	Diagnosis	ICD-9-CM
296.1	Manic disorder, recurrent episode	Diagnosis	ICD-9-CM
296.10	Manic disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.11	Manic disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.12	Manic disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.13	Manic disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.14	Manic disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.15	Manic disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.16	Manic disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.2	Major depressive disorder, single episode	Diagnosis	ICD-9-CM
296.20	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-9-CM
296.21	Major depressive disorder, single episode, mild	Diagnosis	ICD-9-CM
296.22	Major depressive disorder, single episode, moderate	Diagnosis	ICD-9-CM
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.25	Major depressive disorder, single episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.26	Major depressive disorder, single episode in full remission	Diagnosis	ICD-9-CM
296.3	Major depressive disorder, recurrent episode	Diagnosis	ICD-9-CM
296.30	Major depressive disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.31	Major depressive disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.32	Major depressive disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.36	Major depressive disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.4	Bipolar I disorder, most recent episode (or current) manic	Diagnosis	ICD-9-CM
296.40	Bipolar I disorder, most recent episode (or current) manic, unspecified	Diagnosis	ICD-9-CM
296.41	Bipolar I disorder, most recent episode (or current) manic, mild	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
296.42	Bipolar I disorder, most recent episode (or current) manic, moderate	Diagnosis	ICD-9-CM
296.43	Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.44	Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.45	Bipolar I disorder, most recent episode (or current) manic, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.46	Bipolar I disorder, most recent episode (or current) manic, in full remission	Diagnosis	ICD-9-CM
296.5	Bipolar I disorder, most recent episode (or current), depressed	Diagnosis	ICD-9-CM
296.50	Bipolar I disorder, most recent episode (or current) depressed, unspecified	Diagnosis	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM
296.6	Bipolar I disorder, most recent episode (or current), mixed	Diagnosis	ICD-9-CM
296.60	Bipolar I disorder, most recent episode (or current) mixed, unspecified	Diagnosis	ICD-9-CM
296.61	Bipolar I disorder, most recent episode (or current) mixed, mild	Diagnosis	ICD-9-CM
296.62	Bipolar I disorder, most recent episode (or current) mixed, moderate	Diagnosis	ICD-9-CM
296.63	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.64	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.65	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.66	Bipolar I disorder, most recent episode (or current) mixed, in full remission	Diagnosis	ICD-9-CM
296.7	Bipolar I disorder, most recent episode (or current) unspecified	Diagnosis	ICD-9-CM
296.8	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
296.80	Bipolar disorder, unspecified	Diagnosis	ICD-9-CM
296.81	Atypical manic disorder	Diagnosis	ICD-9-CM
296.89	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
300	Anxiety, dissociative and somatoform disorders	Diagnosis	ICD-9-CM
300.0	Anxiety states	Diagnosis	ICD-9-CM
300.00	Anxiety state, unspecified	Diagnosis	ICD-9-CM
300.01	Panic disorder without agoraphobia	Diagnosis	ICD-9-CM
300.02	Generalized anxiety disorder	Diagnosis	ICD-9-CM
300.09	Other anxiety states	Diagnosis	ICD-9-CM
300.10	Hysteria, unspecified	Diagnosis	ICD-9-CM
300.11	Conversion disorder	Diagnosis	ICD-9-CM
300.12	Dissociative amnesia	Diagnosis	ICD-9-CM
300.13	Dissociative fugue	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
300.14	Dissociative identity disorder	Diagnosis	ICD-9-CM
300.15	Dissociative disorder or reaction, unspecified	Diagnosis	ICD-9-CM
300.2	Phobic disorders	Diagnosis	ICD-9-CM
300.20	Phobia, unspecified	Diagnosis	ICD-9-CM
300.21	Agoraphobia with panic disorder	Diagnosis	ICD-9-CM
300.22	Agoraphobia without mention of panic attacks	Diagnosis	ICD-9-CM
300.23	Social phobia	Diagnosis	ICD-9-CM
300.29	Other isolated or specific phobias	Diagnosis	ICD-9-CM
300.3	Obsessive-compulsive disorders	Diagnosis	ICD-9-CM
300.6	Depersonalization disorder	Diagnosis	ICD-9-CM
300.7	Hypochondriasis	Diagnosis	ICD-9-CM
300.81	Somatization disorder	Diagnosis	ICD-9-CM
300.82	Undifferentiated somatoform disorder	Diagnosis	ICD-9-CM
300.89	Other somatoform disorders	Diagnosis	ICD-9-CM
301	Personality disorders	Diagnosis	ICD-9-CM
301.0	Paranoid personality disorder	Diagnosis	ICD-9-CM
301.1	Affective personality disorder	Diagnosis	ICD-9-CM
301.10	Affective personality disorder, unspecified	Diagnosis	ICD-9-CM
301.11	Chronic hypomanic personality disorder	Diagnosis	ICD-9-CM
301.12	Chronic depressive personality disorder	Diagnosis	ICD-9-CM
301.13	Cyclothymic disorder	Diagnosis	ICD-9-CM
301.2	Schizoid personality disorder	Diagnosis	ICD-9-CM
301.20	Schizoid personality disorder, unspecified	Diagnosis	ICD-9-CM
301.21	Introverted personality	Diagnosis	ICD-9-CM
301.22	Schizotypal personality disorder	Diagnosis	ICD-9-CM
301.3	Explosive personality disorder	Diagnosis	ICD-9-CM
301.4	Obsessive-compulsive personality disorder	Diagnosis	ICD-9-CM
301.5	Histrionic personality disorder	Diagnosis	ICD-9-CM
301.50	Histrionic personality disorder, unspecified	Diagnosis	ICD-9-CM
301.59	Other histrionic personality disorder	Diagnosis	ICD-9-CM
301.6	Dependent personality disorder	Diagnosis	ICD-9-CM
301.7	Antisocial personality disorder	Diagnosis	ICD-9-CM
301.8	Other personality disorders	Diagnosis	ICD-9-CM
301.81	Narcissistic personality disorder	Diagnosis	ICD-9-CM
301.82	Avoidant personality disorder	Diagnosis	ICD-9-CM
301.83	Borderline personality disorder	Diagnosis	ICD-9-CM
301.84	Passive-aggressive personality	Diagnosis	ICD-9-CM
301.89	Other personality disorder	Diagnosis	ICD-9-CM
309.24	Adjustment disorder with anxiety	Diagnosis	ICD-9-CM
309.81	Posttraumatic stress disorder	Diagnosis	ICD-9-CM
313.0	Overanxious disorder specific to childhood and adolescence	Diagnosis	ICD-9-CM
314.00	Attention deficit disorder of childhood without mention of hyperactivity	Diagnosis	ICD-9-CM
314.01	Attention deficit disorder of childhood with hyperactivity	Diagnosis	ICD-9-CM
314.1	Hyperkinesis of childhood with developmental delay	Diagnosis	ICD-9-CM
314.2	Hyperkinetic conduct disorder of childhood	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
314.8	Other specified manifestations of hyperkinetic syndrome of childhood	Diagnosis	ICD-9-CM
314.9	Unspecified hyperkinetic syndrome of childhood	Diagnosis	ICD-9-CM
338.2	Chronic pain	Diagnosis	ICD-9-CM
338.21	Chronic pain due to trauma	Diagnosis	ICD-9-CM
338.22	Chronic post-thoracotomy pain	Diagnosis	ICD-9-CM
338.28	Other chronic postoperative pain	Diagnosis	ICD-9-CM
338.29	Other chronic pain	Diagnosis	ICD-9-CM
338.3	Neoplasm related pain (acute) (chronic)	Diagnosis	ICD-9-CM
338.4	Chronic pain syndrome	Diagnosis	ICD-9-CM
345	Epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.0	Generalized nonconvulsive epilepsy	Diagnosis	ICD-9-CM
345.00	Generalized nonconvulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.01	Generalized nonconvulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.1	Generalized convulsive epilepsy	Diagnosis	ICD-9-CM
345.10	Generalized convulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.11	Generalized convulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.2	Epileptic petit mal status	Diagnosis	ICD-9-CM
345.3	Epileptic grand mal status	Diagnosis	ICD-9-CM
345.4	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures	Diagnosis	ICD-9-CM
345.40	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.41	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.5	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures	Diagnosis	ICD-9-CM
345.50	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.51	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.6	Infantile spasms	Diagnosis	ICD-9-CM
345.60	Infantile spasms without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.61	Infantile spasms with intractable epilepsy	Diagnosis	ICD-9-CM
345.7	Epilepsia partialis continua	Diagnosis	ICD-9-CM
345.70	Epilepsia partialis continua without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.71	Epilepsia partialis continua with intractable epilepsy	Diagnosis	ICD-9-CM
345.8	Other forms of epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.80	Other forms of epilepsy and recurrent seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.81	Other forms of epilepsy and recurrent seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.9	Unspecified epilepsy	Diagnosis	ICD-9-CM
345.90	Unspecified epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.91	Unspecified epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
346	Migraine	Diagnosis	ICD-9-CM
346.0	Migraine with aura	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
346.00	Migraine with aura, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.01	Migraine with aura, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.02	Migraine with aura, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.03	Migraine with aura, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.1	Migraine without aura	Diagnosis	ICD-9-CM
346.10	Migraine without aura, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.11	Migraine without aura, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.12	Migraine without aura, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.13	Migraine without aura, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.2	Variants of migraine, not elsewhere classified	Diagnosis	ICD-9-CM
346.20	Variants of migraine, not elsewhere classified, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.21	Variants of migraine, not elsewhere classified, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.22	Variants of migraine, not elsewhere classified, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.23	Variants of migraine, not elsewhere classified, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.3	Hemiplegic migraine	Diagnosis	ICD-9-CM
346.30	Hemiplegic migraine, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.31	Hemiplegic migraine, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.32	Hemiplegic migraine, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.33	Hemiplegic migraine, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.4	Menstrual migraine	Diagnosis	ICD-9-CM
346.40	Menstrual migraine, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.41	Menstrual migraine, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.42	Menstrual migraine, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.43	Menstrual migraine, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.5	Persistent migraine aura without cerebral infarction	Diagnosis	ICD-9-CM
346.50	Persistent migraine aura without cerebral infarction, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.51	Persistent migraine aura without cerebral infarction, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
346.52	Persistent migraine aura without cerebral infarction, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.53	Persistent migraine aura without cerebral infarction, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.6	Persistent migraine aura with cerebral infarction	Diagnosis	ICD-9-CM
346.60	Persistent migraine aura with cerebral infarction, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.61	Persistent migraine aura with cerebral infarction, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.62	Persistent migraine aura with cerebral infarction, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.63	Persistent migraine aura with cerebral infarction, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.7	Chronic migraine without aura	Diagnosis	ICD-9-CM
346.70	Chronic migraine without aura, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.71	Chronic migraine without aura, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.72	Chronic migraine without aura, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.73	Chronic migraine without aura, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.8	Other forms of migraine	Diagnosis	ICD-9-CM
346.80	Other forms of migraine, without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.81	Other forms of migraine, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.82	Other forms of migraine, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.83	Other forms of migraine, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
346.9	Migraine, unspecified	Diagnosis	ICD-9-CM
346.90	Migraine, unspecified without mention of intractable migraine without mention of status migrainosus	Diagnosis	ICD-9-CM
346.91	Migraine, unspecified, with intractable migraine, so stated, without mention of status migrainosus	Diagnosis	ICD-9-CM
346.92	Migraine, unspecified, without mention of intractable migraine with status migrainosus	Diagnosis	ICD-9-CM
346.93	Migraine, unspecified, with intractable migraine, so stated, with status migrainosus	Diagnosis	ICD-9-CM
649.4	Epilepsy complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
649.40	Epilepsy complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-9-CM
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.43	Epilepsy complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-9-CM
649.44	Epilepsy complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
723.4	Brachial neuritis or radiculitis NOS	Diagnosis	ICD-9-CM
724.4	Thoracic or lumbosacral neuritis or radiculitis, unspecified	Diagnosis	ICD-9-CM
729.1	Unspecified myalgia and myositis	Diagnosis	ICD-9-CM
729.2	Unspecified neuralgia, neuritis, and radiculitis	Diagnosis	ICD-9-CM
780.71	Chronic fatigue syndrome	Diagnosis	ICD-9-CM
F06.4	Anxiety disorder due to known physiological condition	Diagnosis	ICD-10-CM
F20	Schizophrenia	Diagnosis	ICD-10-CM
F20.0	Paranoid schizophrenia	Diagnosis	ICD-10-CM
F20.1	Disorganized schizophrenia	Diagnosis	ICD-10-CM
F20.2	Catatonic schizophrenia	Diagnosis	ICD-10-CM
F20.3	Undifferentiated schizophrenia	Diagnosis	ICD-10-CM
F20.5	Residual schizophrenia	Diagnosis	ICD-10-CM
F20.8	Other schizophrenia	Diagnosis	ICD-10-CM
F20.81	Schizophreniform disorder	Diagnosis	ICD-10-CM
F20.89	Other schizophrenia	Diagnosis	ICD-10-CM
F20.9	Schizophrenia, unspecified	Diagnosis	ICD-10-CM
F25	Schizoaffective disorders	Diagnosis	ICD-10-CM
F25.0	Schizoaffective disorder, bipolar type	Diagnosis	ICD-10-CM
F25.1	Schizoaffective disorder, depressive type	Diagnosis	ICD-10-CM
F25.8	Other schizoaffective disorders	Diagnosis	ICD-10-CM
F25.9	Schizoaffective disorder, unspecified	Diagnosis	ICD-10-CM
F30.10	Manic episode without psychotic symptoms, unspecified	Diagnosis	ICD-10-CM
F30.11	Manic episode without psychotic symptoms, mild	Diagnosis	ICD-10-CM
F30.12	Manic episode without psychotic symptoms, moderate	Diagnosis	ICD-10-CM
F30.13	Manic episode, severe, without psychotic symptoms	Diagnosis	ICD-10-CM
F30.2	Manic episode, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F30.3	Manic episode in partial remission	Diagnosis	ICD-10-CM
F30.4	Manic episode in full remission	Diagnosis	ICD-10-CM
F30.8	Other manic episodes	Diagnosis	ICD-10-CM
F30.9	Manic episode, unspecified	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.70	Bipolar disorder, currently in remission, most recent episode unspecified	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.72	Bipolar disorder, in full remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.74	Bipolar disorder, in full remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F40	Phobic anxiety disorders	Diagnosis	ICD-10-CM
F40.0	Agoraphobia	Diagnosis	ICD-10-CM
F40.00	Agoraphobia, unspecified	Diagnosis	ICD-10-CM
F40.01	Agoraphobia with panic disorder	Diagnosis	ICD-10-CM
F40.02	Agoraphobia without panic disorder	Diagnosis	ICD-10-CM
F40.1	Social phobias	Diagnosis	ICD-10-CM
F40.10	Social phobia, unspecified	Diagnosis	ICD-10-CM
F40.11	Social phobia, generalized	Diagnosis	ICD-10-CM
F40.2	Specific (isolated) phobias	Diagnosis	ICD-10-CM
F40.21	Animal type phobia	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
F40.210	Arachnophobia	Diagnosis	ICD-10-CM
F40.218	Other animal type phobia	Diagnosis	ICD-10-CM
F40.22	Natural environment type phobia	Diagnosis	ICD-10-CM
F40.220	Fear of thunderstorms	Diagnosis	ICD-10-CM
F40.228	Other natural environment type phobia	Diagnosis	ICD-10-CM
F40.23	Blood, injection, injury type phobia	Diagnosis	ICD-10-CM
F40.230	Fear of blood	Diagnosis	ICD-10-CM
F40.231	Fear of injections and transfusions	Diagnosis	ICD-10-CM
F40.232	Fear of other medical care	Diagnosis	ICD-10-CM
F40.233	Fear of injury	Diagnosis	ICD-10-CM
F40.24	Situational type phobia	Diagnosis	ICD-10-CM
F40.240	Claustrophobia	Diagnosis	ICD-10-CM
F40.241	Acrophobia	Diagnosis	ICD-10-CM
F40.242	Fear of bridges	Diagnosis	ICD-10-CM
F40.243	Fear of flying	Diagnosis	ICD-10-CM
F40.248	Other situational type phobia	Diagnosis	ICD-10-CM
F40.29	Other specified phobia	Diagnosis	ICD-10-CM
F40.290	Androphobia	Diagnosis	ICD-10-CM
F40.291	Gynephobia	Diagnosis	ICD-10-CM
F40.298	Other specified phobia	Diagnosis	ICD-10-CM
F40.8	Other phobic anxiety disorders	Diagnosis	ICD-10-CM
F40.9	Phobic anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F41	Other anxiety disorders	Diagnosis	ICD-10-CM
F41.0	Panic disorder [episodic paroxysmal anxiety]	Diagnosis	ICD-10-CM
F41.1	Generalized anxiety disorder	Diagnosis	ICD-10-CM
F41.3	Other mixed anxiety disorders	Diagnosis	ICD-10-CM
F41.8	Other specified anxiety disorders	Diagnosis	ICD-10-CM
F41.9	Anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F42	Obsessive-compulsive disorder	Diagnosis	ICD-10-CM
F42.4	Excoriation (skin-picking) disorder	Diagnosis	ICD-10-CM
F42.8	Other obsessive-compulsive disorder	Diagnosis	ICD-10-CM
F42.9	Obsessive-compulsive disorder, unspecified	Diagnosis	ICD-10-CM
F43.0	Acute stress reaction	Diagnosis	ICD-10-CM
F43.1	Post-traumatic stress disorder (PTSD)	Diagnosis	ICD-10-CM
F43.10	Post-traumatic stress disorder, unspecified	Diagnosis	ICD-10-CM
F43.11	Post-traumatic stress disorder, acute	Diagnosis	ICD-10-CM
F43.12	Post-traumatic stress disorder, chronic	Diagnosis	ICD-10-CM
F44.9	Dissociative and conversion disorder, unspecified	Diagnosis	ICD-10-CM
F45.8	Other somatoform disorders	Diagnosis	ICD-10-CM
F48.8	Other specified nonpsychotic mental disorders	Diagnosis	ICD-10-CM
F60	Specific personality disorders	Diagnosis	ICD-10-CM
F60.0	Paranoid personality disorder	Diagnosis	ICD-10-CM
F60.1	Schizoid personality disorder	Diagnosis	ICD-10-CM
F60.2	Antisocial personality disorder	Diagnosis	ICD-10-CM
F60.3	Borderline personality disorder	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F60.4	Histrionic personality disorder	Diagnosis	ICD-10-CM
F60.5	Obsessive-compulsive personality disorder	Diagnosis	ICD-10-CM
F60.6	Avoidant personality disorder	Diagnosis	ICD-10-CM
F60.7	Dependent personality disorder	Diagnosis	ICD-10-CM
F60.8	Other specific personality disorders	Diagnosis	ICD-10-CM
F60.81	Narcissistic personality disorder	Diagnosis	ICD-10-CM
F60.89	Other specific personality disorders	Diagnosis	ICD-10-CM
F60.9	Personality disorder, unspecified	Diagnosis	ICD-10-CM
F90.0	Attention-deficit hyperactivity disorder, predominantly inattentive type	Diagnosis	ICD-10-CM
F90.1	Attention-deficit hyperactivity disorder, predominantly hyperactive type	Diagnosis	ICD-10-CM
F90.2	Attention-deficit hyperactivity disorder, combined type	Diagnosis	ICD-10-CM
F90.8	Attention-deficit hyperactivity disorder, other type	Diagnosis	ICD-10-CM
F90.9	Attention-deficit hyperactivity disorder, unspecified type	Diagnosis	ICD-10-CM
F93.0	Separation anxiety disorder of childhood	Diagnosis	ICD-10-CM
G40.001	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.009	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.011	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.019	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.101	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.109	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.111	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.119	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.201	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.211	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.219	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.301	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.309	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.311	Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
G40.319	Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.401	Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.409	Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.411	Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.419	Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.501	Epileptic seizures related to external causes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.509	Epileptic seizures related to external causes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.801	Other epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.802	Other epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.803	Other epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.804	Other epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.811	Lennox-Gastaut syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.812	Lennox-Gastaut syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.813	Lennox-Gastaut syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.814	Lennox-Gastaut syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.821	Epileptic spasms, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.822	Epileptic spasms, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.823	Epileptic spasms, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.824	Epileptic spasms, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.89	Other seizures	Diagnosis	ICD-10-CM
G40.901	Epilepsy, unspecified, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.909	Epilepsy, unspecified, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.911	Epilepsy, unspecified, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.919	Epilepsy, unspecified, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A01	Absence epileptic syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A09	Absence epileptic syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A11	Absence epileptic syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A19	Absence epileptic syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B01	Juvenile myoclonic epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B09	Juvenile myoclonic epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B11	Juvenile myoclonic epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B19	Juvenile myoclonic epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G43.001	Migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.009	Migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.011	Migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.019	Migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.101	Migraine with aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.109	Migraine with aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.111	Migraine with aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
G43.119	Migraine with aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.401	Hemiplegic migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.409	Hemiplegic migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.411	Hemiplegic migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.419	Hemiplegic migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.501	Persistent migraine aura without cerebral infarction, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.509	Persistent migraine aura without cerebral infarction, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.511	Persistent migraine aura without cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.519	Persistent migraine aura without cerebral infarction, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.601	Persistent migraine aura with cerebral infarction, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.609	Persistent migraine aura with cerebral infarction, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.611	Persistent migraine aura with cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.619	Persistent migraine aura with cerebral infarction, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.701	Chronic migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.709	Chronic migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.711	Chronic migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.719	Chronic migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.801	Other migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.809	Other migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.811	Other migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.819	Other migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.821	Menstrual migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.829	Menstrual migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.831	Menstrual migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.839	Menstrual migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.901	Migraine, unspecified, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.909	Migraine, unspecified, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.911	Migraine, unspecified, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.919	Migraine, unspecified, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.B0	Ophthalmoplegic migraine, not intractable	Diagnosis	ICD-10-CM
G43.B1	Ophthalmoplegic migraine, intractable	Diagnosis	ICD-10-CM
G43.C0	Periodic headache syndromes in child or adult, not intractable	Diagnosis	ICD-10-CM
G43.C1	Periodic headache syndromes in child or adult, intractable	Diagnosis	ICD-10-CM
G43.D0	Abdominal migraine, not intractable	Diagnosis	ICD-10-CM
G43.D1	Abdominal migraine, intractable	Diagnosis	ICD-10-CM
G89.21	Chronic pain due to trauma	Diagnosis	ICD-10-CM
G89.22	Chronic post-thoracotomy pain	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
G89.28	Other chronic postprocedural pain	Diagnosis	ICD-10-CM
G89.29	Other chronic pain	Diagnosis	ICD-10-CM
G89.3	Neoplasm related pain (acute) (chronic)	Diagnosis	ICD-10-CM
G89.4	Chronic pain syndrome	Diagnosis	ICD-10-CM
M54.10	Radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M54.11	Radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M54.12	Radiculopathy, cervical region	Diagnosis	ICD-10-CM
M54.13	Radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M54.14	Radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M54.15	Radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M54.16	Radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M54.17	Radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M54.18	Radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M60.80	Other myositis, unspecified site	Diagnosis	ICD-10-CM
M60.811	Other myositis, right shoulder	Diagnosis	ICD-10-CM
M60.812	Other myositis, left shoulder	Diagnosis	ICD-10-CM
M60.819	Other myositis, unspecified shoulder	Diagnosis	ICD-10-CM
M60.821	Other myositis, right upper arm	Diagnosis	ICD-10-CM
M60.822	Other myositis, left upper arm	Diagnosis	ICD-10-CM
M60.829	Other myositis, unspecified upper arm	Diagnosis	ICD-10-CM
M60.831	Other myositis, right forearm	Diagnosis	ICD-10-CM
M60.832	Other myositis, left forearm	Diagnosis	ICD-10-CM
M60.839	Other myositis, unspecified forearm	Diagnosis	ICD-10-CM
M60.841	Other myositis, right hand	Diagnosis	ICD-10-CM
M60.842	Other myositis, left hand	Diagnosis	ICD-10-CM
M60.849	Other myositis, unspecified hand	Diagnosis	ICD-10-CM
M60.851	Other myositis, right thigh	Diagnosis	ICD-10-CM
M60.852	Other myositis, left thigh	Diagnosis	ICD-10-CM
M60.859	Other myositis, unspecified thigh	Diagnosis	ICD-10-CM
M60.861	Other myositis, right lower leg	Diagnosis	ICD-10-CM
M60.862	Other myositis, left lower leg	Diagnosis	ICD-10-CM
M60.869	Other myositis, unspecified lower leg	Diagnosis	ICD-10-CM
M60.871	Other myositis, right ankle and foot	Diagnosis	ICD-10-CM
M60.872	Other myositis, left ankle and foot	Diagnosis	ICD-10-CM
M60.879	Other myositis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M60.88	Other myositis, other site	Diagnosis	ICD-10-CM
M60.89	Other myositis, multiple sites	Diagnosis	ICD-10-CM
M60.9	Myositis, unspecified	Diagnosis	ICD-10-CM
M79.2	Neuralgia and neuritis, unspecified	Diagnosis	ICD-10-CM
M79.7	Fibromyalgia	Diagnosis	ICD-10-CM
R53.82	Chronic fatigue, unspecified	Diagnosis	ICD-10-CM
Nicotine Use			
305.1	Nondependent tobacco use disorder	Diagnosis	ICD-9-CM
649.0	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
649.00	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-9-CM
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.03	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-9-CM
649.04	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
989.84	Toxic effect of tobacco	Diagnosis	ICD-9-CM
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	CPT-4
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	Procedure	CPT-4
C9801	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	Procedure	HCPCS
C9802	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	Procedure	HCPCS
D1320	tobacco counseling for the control and prevention of oral disease	Procedure	HCPCS
F17	Nicotine dependence	Diagnosis	ICD-10-CM
F17.2	Nicotine dependence	Diagnosis	ICD-10-CM
F17.20	Nicotine dependence, unspecified	Diagnosis	ICD-10-CM
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence, unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.21	Nicotine dependence, cigarettes	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.22	Nicotine dependence, chewing tobacco	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.29	Nicotine dependence, other tobacco product	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
G0375	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	HCPCS
G0376	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	Procedure	HCPCS
G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	Procedure	HCPCS
G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	Procedure	HCPCS
G8093	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient documented to have received smoking cessation intervention, within 3 months of diagnosis	Procedure	HCPCS
G8094	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient not documented to have received smoking cessation intervention, within 3 months of diagnosis	Procedure	HCPCS
G8402	Tobacco (smoke) use cessation intervention, counseling	Procedure	HCPCS
G8403	Tobacco (smoke) use cessation intervention not counseled	Procedure	HCPCS
G8453	Tobacco use cessation intervention, counseling	Procedure	HCPCS
G8454	Tobacco use cessation intervention not counseled, reason not specified	Procedure	HCPCS
G8455	Current tobacco smoker	Procedure	HCPCS
G8456	Current smokeless tobacco user	Procedure	HCPCS
G8688	Currently a smokeless tobacco user (e.g., chew, snuff) and no exposure to secondhand smoke	Procedure	HCPCS
G8690	Current tobacco smoker or current exposure to secondhand smoke	Procedure	HCPCS
G8692	Current smokeless tobacco user (e.g., chew, snuff) and no exposure to secondhand smoke	Procedure	HCPCS
G9016	Smoking cessation counseling, individual, in the absence of or in addition to any other evaluation and management service, per session (6-10 minutes) [demo project code only]	Procedure	HCPCS
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of quitting smoking or tobacco use, assistance with or referral to external smoking or tobacco cessation support programs, or current enrollment in smoking or tobacco use cessation program) if identified as a tobacco user	Procedure	HCPCS
O99.330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
T65.211	Toxic effect of chewing tobacco, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.212	Toxic effect of chewing tobacco, intentional self-harm	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.213	Toxic effect of chewing tobacco, assault	Diagnosis	ICD-10-CM
T65.213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65.214	Toxic effect of chewing tobacco, undetermined	Diagnosis	ICD-10-CM
T65.214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.221	Toxic effect of tobacco cigarettes, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.222	Toxic effect of tobacco cigarettes, intentional self-harm	Diagnosis	ICD-10-CM
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.223	Toxic effect of tobacco cigarettes, assault	Diagnosis	ICD-10-CM
T65.223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65.224	Toxic effect of tobacco cigarettes, undetermined	Diagnosis	ICD-10-CM
T65.224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.291	Toxic effect of other tobacco and nicotine, accidental (unintentional)	Diagnosis	ICD-10-CM
T65.291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.292	Toxic effect of other tobacco and nicotine, intentional self-harm	Diagnosis	ICD-10-CM
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.293	Toxic effect of other tobacco and nicotine, assault	Diagnosis	ICD-10-CM
T65.293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65.294	Toxic effect of other tobacco and nicotine, undetermined	Diagnosis	ICD-10-CM
T65.294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM
V15.82	Personal history of tobacco use, presenting hazards to health	Diagnosis	ICD-9-CM
Z72.0	Tobacco use	Diagnosis	ICD-10-CM
Z87.891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
Hypertension			
362.11	Hypertensive retinopathy	Diagnosis	ICD-9-CM
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM
437.2	Hypertensive encephalopathy	Diagnosis	ICD-9-CM
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
Suspected teratogens			
J0702	INJECTION, BETAMETHASONE ACETATE AND BETAMETHASONE SODIUM PHOSPHATE, PER 3 MG	Procedure	HCPCS
J1020	Inj methylpred 20 mg	Procedure	HCPCS
J1030	Inj methylpred 40 mg	Procedure	HCPCS
J1040	Inj methylpred 80 mg	Procedure	HCPCS
J1094	Inj dexa acet 1 mg	Procedure	HCPCS
J1100	Inj dexa sod 1 mg	Procedure	HCPCS
J1700	Inj hydro 25 mg	Procedure	HCPCS
J1710	Inj hydro sod 50 mg	Procedure	HCPCS
J1720	Inj hydro sod 100 mg	Procedure	HCPCS
J2650	Injection, prednisolone acetate, up to 1 ml	Procedure	HCPCS
J2920	Inj methylpred sod 40 mg	Procedure	HCPCS
J2930	Inj methyl sod 125 mg	Procedure	HCPCS
J3300	Inj triam acet preservative free 1 mg	Procedure	HCPCS
J3301	Inj triam acet not otherwise specified 10 mg	Procedure	HCPCS
J3302	Inj triam diacet per 5 mg	Procedure	HCPCS
J3303	Inj triam hexa per 5 mg	Procedure	HCPCS
J3304	Inj triam acet extended release microsphere formulation, 1 mg	Procedure	HCPCS
J7509	Methylpred oral 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	Dexa oral 0.25 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
Cardiac malformation			
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	Diagnosis	ICD-9-CM
745.0	Bulbus cordis anomalies and anomalies of cardiac septal closure, common truncus	Diagnosis	ICD-9-CM
745.1	Transposition of great vessels	Diagnosis	ICD-9-CM
745.10	Complete transposition of great vessels	Diagnosis	ICD-9-CM
745.11	Transposition of great vessels, double outlet right ventricle	Diagnosis	ICD-9-CM
745.12	Corrected transposition of great vessels	Diagnosis	ICD-9-CM
745.19	Other transposition of great vessels	Diagnosis	ICD-9-CM
745.2	Tetralogy of Fallot	Diagnosis	ICD-9-CM
745.3	Bulbus cordis anomalies and anomalies of cardiac septal closure, common ventricle	Diagnosis	ICD-9-CM
745.4	Ventricular septal defect	Diagnosis	ICD-9-CM
745.5	Ostium secundum type atrial septal defect	Diagnosis	ICD-9-CM
745.6	Endocardial cushion defects	Diagnosis	ICD-9-CM
745.60	Unspecified type congenital endocardial cushion defect	Diagnosis	ICD-9-CM
745.61	Ostium primum defect	Diagnosis	ICD-9-CM
745.69	Other congenital endocardial cushion defect	Diagnosis	ICD-9-CM
745.7	Cor biloculare	Diagnosis	ICD-9-CM
745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure	Diagnosis	ICD-9-CM
745.9	Unspecified congenital defect of septal closure	Diagnosis	ICD-9-CM
746	Other congenital anomalies of heart	Diagnosis	ICD-9-CM
746.0	Congenital anomalies of pulmonary valve	Diagnosis	ICD-9-CM
746.00	Unspecified congenital pulmonary valve anomaly	Diagnosis	ICD-9-CM
746.01	Congenital atresia of pulmonary valve	Diagnosis	ICD-9-CM
746.02	Congenital stenosis of pulmonary valve	Diagnosis	ICD-9-CM
746.09	Other congenital anomalies of pulmonary valve	Diagnosis	ICD-9-CM
746.1	Congenital tricuspid atresia and stenosis	Diagnosis	ICD-9-CM
746.2	Ebstein's anomaly	Diagnosis	ICD-9-CM
746.3	Congenital stenosis of aortic valve	Diagnosis	ICD-9-CM
746.4	Congenital insufficiency of aortic valve	Diagnosis	ICD-9-CM
746.5	Congenital mitral stenosis	Diagnosis	ICD-9-CM
746.6	Congenital mitral insufficiency	Diagnosis	ICD-9-CM
746.7	Hypoplastic left heart syndrome	Diagnosis	ICD-9-CM
746.8	Other specified congenital anomaly of heart	Diagnosis	ICD-9-CM
746.81	Congenital subaortic stenosis	Diagnosis	ICD-9-CM
746.82	Cor triatriatum	Diagnosis	ICD-9-CM
746.83	Congenital infundibular pulmonic stenosis	Diagnosis	ICD-9-CM
746.84	Congenital obstructive anomalies of heart, not elsewhere classified	Diagnosis	ICD-9-CM
746.85	Congenital coronary artery anomaly	Diagnosis	ICD-9-CM
746.86	Congenital heart block	Diagnosis	ICD-9-CM
746.87	Congenital malposition of heart and cardiac apex	Diagnosis	ICD-9-CM
746.89	Other specified congenital anomaly of heart	Diagnosis	ICD-9-CM
746.9	Unspecified congenital anomaly of heart	Diagnosis	ICD-9-CM
747	Other congenital anomalies of circulatory system	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
747.0	Patent ductus arteriosus	Diagnosis	ICD-9-CM
747.1	Coarctation of aorta	Diagnosis	ICD-9-CM
747.10	Coarctation of aorta (preductal) (postductal)	Diagnosis	ICD-9-CM
747.11	Congenital interruption of aortic arch	Diagnosis	ICD-9-CM
747.2	Other congenital anomaly of aorta	Diagnosis	ICD-9-CM
747.20	Unspecified congenital anomaly of aorta	Diagnosis	ICD-9-CM
747.21	Congenital anomaly of aortic arch	Diagnosis	ICD-9-CM
747.22	Congenital atresia and stenosis of aorta	Diagnosis	ICD-9-CM
747.29	Other congenital anomaly of aorta	Diagnosis	ICD-9-CM
747.3	Anomalies of pulmonary artery	Diagnosis	ICD-9-CM
747.31	Pulmonary artery coarctation and atresia	Diagnosis	ICD-9-CM
747.32	Pulmonary arteriovenous malformation	Diagnosis	ICD-9-CM
747.39	Other anomalies of pulmonary artery and pulmonary circulation	Diagnosis	ICD-9-CM
747.4	Congenital anomalies of great veins	Diagnosis	ICD-9-CM
747.40	Congenital anomaly of great veins unspecified	Diagnosis	ICD-9-CM
747.41	Total congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
747.42	Partial congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
747.49	Other congenital anomalies of great veins	Diagnosis	ICD-9-CM
747.5	Congenital absence or hypoplasia of umbilical artery	Diagnosis	ICD-9-CM
747.6	Other congenital anomaly of peripheral vascular system	Diagnosis	ICD-9-CM
747.60	Congenital anomaly of the peripheral vascular system, unspecified site	Diagnosis	ICD-9-CM
747.61	Congenital gastrointestinal vessel anomaly	Diagnosis	ICD-9-CM
747.62	Congenital renal vessel anomaly	Diagnosis	ICD-9-CM
747.63	Congenital upper limb vessel anomaly	Diagnosis	ICD-9-CM
747.64	Congenital lower limb vessel anomaly	Diagnosis	ICD-9-CM
747.69	Congenital anomaly of other specified site of peripheral vascular system	Diagnosis	ICD-9-CM
747.8	Other specified congenital anomalies of circulatory system	Diagnosis	ICD-9-CM
747.81	Congenital anomaly of cerebrovascular system	Diagnosis	ICD-9-CM
747.82	Congenital spinal vessel anomaly	Diagnosis	ICD-9-CM
747.83	Persistent fetal circulation	Diagnosis	ICD-9-CM
747.89	Other specified congenital anomaly of circulatory system	Diagnosis	ICD-9-CM
747.9	Unspecified congenital anomaly of circulatory system	Diagnosis	ICD-9-CM
I27.83	Eisenmenger's syndrome	Diagnosis	ICD-10-CM
P29.30	Pulmonary hypertension of newborn	Diagnosis	ICD-10-CM
P29.38	Other persistent fetal circulation	Diagnosis	ICD-10-CM
Q20.0	Common arterial trunk	Diagnosis	ICD-10-CM
Q20.1	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q20.2	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q20.3	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q20.4	Double inlet ventricle	Diagnosis	ICD-10-CM
Q20.5	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q20.6	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q20.8	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q21.0	Ventricular septal defect	Diagnosis	ICD-10-CM
Q21.1	Atrial septal defect	Diagnosis	ICD-10-CM
Q21.2	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.3	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q21.4	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q21.8	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q21.9	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q22.0	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q22.1	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q22.2	Congenital pulmonary valve insufficiency	Diagnosis	ICD-10-CM
Q22.3	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q22.4	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q22.5	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q22.6	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q22.8	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
Q22.9	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q23.0	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q23.1	Congenital insufficiency of aortic valve	Diagnosis	ICD-10-CM
Q23.2	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q23.3	Congenital mitral insufficiency	Diagnosis	ICD-10-CM
Q23.4	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q23.8	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q23.9	Congenital malformation of aortic and mitral valves, unspecified	Diagnosis	ICD-10-CM
Q24.0	Dextrocardia	Diagnosis	ICD-10-CM
Q24.1	Levocardia	Diagnosis	ICD-10-CM
Q24.2	Cor triatriatum	Diagnosis	ICD-10-CM
Q24.3	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q24.4	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q24.5	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q24.6	Congenital heart block	Diagnosis	ICD-10-CM
Q24.8	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q24.9	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM
Q25.0	Patent ductus arteriosus	Diagnosis	ICD-10-CM
Q25.1	Coarctation of aorta	Diagnosis	ICD-10-CM
Q25.21	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q25.29	Other atresia of aorta	Diagnosis	ICD-10-CM
Q25.3	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q25.40	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q25.41	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q25.42	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q25.43	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q25.44	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q25.45	Double aortic arch	Diagnosis	ICD-10-CM
Q25.46	Tortuous aortic arch	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q25.47	Right aortic arch	Diagnosis	ICD-10-CM
Q25.48	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q25.49	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q25.5	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q25.6	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q25.71	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q25.72	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q25.79	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q25.8	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
Q25.9	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM
Q26.0	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q26.1	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.4	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q26.5	Anomalous portal venous connection	Diagnosis	ICD-10-CM
Q26.6	Portal vein-hepatic artery fistula	Diagnosis	ICD-10-CM
Q26.8	Other congenital malformations of great veins	Diagnosis	ICD-10-CM
Q26.9	Congenital malformation of great vein, unspecified	Diagnosis	ICD-10-CM
Q27.0	Congenital absence and hypoplasia of umbilical artery	Diagnosis	ICD-10-CM
Q27.1	Congenital renal artery stenosis	Diagnosis	ICD-10-CM
Q27.2	Other congenital malformations of renal artery	Diagnosis	ICD-10-CM
Q27.30	Arteriovenous malformation, site unspecified	Diagnosis	ICD-10-CM
Q27.31	Arteriovenous malformation of vessel of upper limb	Diagnosis	ICD-10-CM
Q27.32	Arteriovenous malformation of vessel of lower limb	Diagnosis	ICD-10-CM
Q27.33	Arteriovenous malformation of digestive system vessel	Diagnosis	ICD-10-CM
Q27.34	Arteriovenous malformation of renal vessel	Diagnosis	ICD-10-CM
Q27.39	Arteriovenous malformation, other site	Diagnosis	ICD-10-CM
Q27.4	Congenital phlebectasia	Diagnosis	ICD-10-CM
Q27.8	Other specified congenital malformations of peripheral vascular system	Diagnosis	ICD-10-CM
Q27.9	Congenital malformation of peripheral vascular system, unspecified	Diagnosis	ICD-10-CM
Q28.0	Arteriovenous malformation of precerebral vessels	Diagnosis	ICD-10-CM
Q28.1	Other malformations of precerebral vessels	Diagnosis	ICD-10-CM
Q28.2	Arteriovenous malformation of cerebral vessels	Diagnosis	ICD-10-CM
Q28.3	Other malformations of cerebral vessels	Diagnosis	ICD-10-CM
Q28.8	Other specified congenital malformations of circulatory system	Diagnosis	ICD-10-CM
Q28.9	Congenital malformation of circulatory system, unspecified	Diagnosis	ICD-10-CM
Urinary malformation			
753	Congenital anomalies of urinary system	Diagnosis	ICD-9-CM
753.0	Congenital renal agenesis and dysgenesis	Diagnosis	ICD-9-CM
753.1	Congenital cystic kidney disease	Diagnosis	ICD-9-CM
753.10	Unspecified congenital cystic kidney disease	Diagnosis	ICD-9-CM
753.11	Congenital single renal cyst	Diagnosis	ICD-9-CM
753.12	Congenital polycystic kidney, unspecified type	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
753.13	Congenital polycystic kidney, autosomal dominant	Diagnosis	ICD-9-CM
753.14	Congenital polycystic kidney, autosomal recessive	Diagnosis	ICD-9-CM
753.15	Congenital renal dysplasia	Diagnosis	ICD-9-CM
753.16	Congenital medullary cystic kidney	Diagnosis	ICD-9-CM
753.17	Congenital medullary sponge kidney	Diagnosis	ICD-9-CM
753.19	Other specified congenital cystic kidney disease	Diagnosis	ICD-9-CM
753.2	Congenital obstructive defects of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.20	Unspecified obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.21	Congenital obstruction of ureteropelvic junction	Diagnosis	ICD-9-CM
753.22	Congenital obstruction of ureterovesical junction	Diagnosis	ICD-9-CM
753.23	Congenital ureterocele	Diagnosis	ICD-9-CM
753.29	Other obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.3	Other specified congenital anomalies of kidney	Diagnosis	ICD-9-CM
753.4	Other specified congenital anomalies of ureter	Diagnosis	ICD-9-CM
753.5	Exstrophy of urinary bladder	Diagnosis	ICD-9-CM
753.6	Congenital atresia and stenosis of urethra and bladder neck	Diagnosis	ICD-9-CM
753.7	Congenital anomalies of urachus	Diagnosis	ICD-9-CM
753.8	Other specified congenital anomaly of bladder and urethra	Diagnosis	ICD-9-CM
753.9	Unspecified congenital anomaly of urinary system	Diagnosis	ICD-9-CM
Q60.0	Renal agenesis, unilateral	Diagnosis	ICD-10-CM
Q60.1	Renal agenesis, bilateral	Diagnosis	ICD-10-CM
Q60.2	Renal agenesis, unspecified	Diagnosis	ICD-10-CM
Q60.3	Renal hypoplasia, unilateral	Diagnosis	ICD-10-CM
Q60.4	Renal hypoplasia, bilateral	Diagnosis	ICD-10-CM
Q60.5	Renal hypoplasia, unspecified	Diagnosis	ICD-10-CM
Q60.6	Potter's syndrome	Diagnosis	ICD-10-CM
Q61.00	Congenital renal cyst, unspecified	Diagnosis	ICD-10-CM
Q61.01	Congenital single renal cyst	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
Q61.9	Cystic kidney disease, unspecified	Diagnosis	ICD-10-CM
Q62.0	Congenital hydronephrosis	Diagnosis	ICD-10-CM
Q62.10	Congenital occlusion of ureter, unspecified	Diagnosis	ICD-10-CM
Q62.11	Congenital occlusion of ureteropelvic junction	Diagnosis	ICD-10-CM
Q62.12	Congenital occlusion of ureterovesical orifice	Diagnosis	ICD-10-CM
Q62.2	Congenital megaureter	Diagnosis	ICD-10-CM
Q62.31	Congenital ureterocele, orthotopic	Diagnosis	ICD-10-CM
Q62.32	Cecoureterocele	Diagnosis	ICD-10-CM

Appendix J. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Specific Major Congenital Malformations of Interest in this Request

Code	Description	Code Category	Code Type
Q62.39	Other obstructive defects of renal pelvis and ureter	Diagnosis	ICD-10-CM
Q62.4	Agenesis of ureter	Diagnosis	ICD-10-CM
Q62.5	Duplication of ureter	Diagnosis	ICD-10-CM
Q62.60	Malposition of ureter, unspecified	Diagnosis	ICD-10-CM
Q62.61	Deviation of ureter	Diagnosis	ICD-10-CM
Q62.62	Displacement of ureter	Diagnosis	ICD-10-CM
Q62.63	Anomalous implantation of ureter	Diagnosis	ICD-10-CM
Q62.69	Other malposition of ureter	Diagnosis	ICD-10-CM
Q62.7	Congenital vesico-uretero-renal reflux	Diagnosis	ICD-10-CM
Q62.8	Other congenital malformations of ureter	Diagnosis	ICD-10-CM
Q63.0	Accessory kidney	Diagnosis	ICD-10-CM
Q63.1	Lobulated, fused and horseshoe kidney	Diagnosis	ICD-10-CM
Q63.2	Ectopic kidney	Diagnosis	ICD-10-CM
Q63.3	Hyperplastic and giant kidney	Diagnosis	ICD-10-CM
Q63.8	Other specified congenital malformations of kidney	Diagnosis	ICD-10-CM
Q63.9	Congenital malformation of kidney, unspecified	Diagnosis	ICD-10-CM
Q64.10	Exstrophy of urinary bladder, unspecified	Diagnosis	ICD-10-CM
Q64.11	Supravesical fissure of urinary bladder	Diagnosis	ICD-10-CM
Q64.12	Cloacal exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q64.19	Other exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q64.2	Congenital posterior urethral valves	Diagnosis	ICD-10-CM
Q64.31	Congenital bladder neck obstruction	Diagnosis	ICD-10-CM
Q64.32	Congenital stricture of urethra	Diagnosis	ICD-10-CM
Q64.33	Congenital stricture of urinary meatus	Diagnosis	ICD-10-CM
Q64.39	Other atresia and stenosis of urethra and bladder neck	Diagnosis	ICD-10-CM
Q64.4	Malformation of urachus	Diagnosis	ICD-10-CM
Q64.5	Congenital absence of bladder and urethra	Diagnosis	ICD-10-CM
Q64.6	Congenital diverticulum of bladder	Diagnosis	ICD-10-CM
Q64.70	Unspecified congenital malformation of bladder and urethra	Diagnosis	ICD-10-CM
Q64.71	Congenital prolapse of urethra	Diagnosis	ICD-10-CM
Q64.72	Congenital prolapse of urinary meatus	Diagnosis	ICD-10-CM
Q64.73	Congenital urethrorectal fistula	Diagnosis	ICD-10-CM
Q64.74	Double urethra	Diagnosis	ICD-10-CM
Q64.75	Double urinary meatus	Diagnosis	ICD-10-CM
Q64.79	Other congenital malformations of bladder and urethra	Diagnosis	ICD-10-CM
Q64.8	Other specified congenital malformations of urinary system	Diagnosis	ICD-10-CM
Q64.9	Congenital malformation of urinary system, unspecified	Diagnosis	ICD-10-CM
Non-cardiac/Non-urinary malformation			
00102	Anesthesia for procedures involving plastic repair of cleft lip	Procedure	CPT-4
00172	Anesthesia for intraoral procedures, including biopsy; repair of cleft palate	Procedure	CPT-4
27.54	Repair of cleft lip	Procedure	ICD-9-CM
27.62	Correction of cleft palate	Procedure	ICD-9-CM
27.63	Revision of cleft palate repair	Procedure	ICD-9-CM
40700	Plastic repair of cleft lip/nasal deformity; primary, partial or complete, unilateral	Procedure	CPT-4

Appendix J. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Specific Major Congenital Malformations of Interest in this Request

Code	Description	Code Category	Code Type
40701	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1-stage procedure	Procedure	CPT-4
40702	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1 of 2 stages	Procedure	CPT-4
40720	Plastic repair of cleft lip/nasal deformity; secondary, by recreation of defect and reclosure	Procedure	CPT-4
40740	Plastic Repair Of Cleft Lip	Procedure	CPT-4
40761	Plastic repair of cleft lip/nasal deformity; with cross lip pedicle flap (Abbe-Estlander type), including sectioning and inserting of pedicle	Procedure	CPT-4
40799	Unlisted procedure, lips	Procedure	CPT-4
42200	Palatoplasty for cleft palate, soft and/or hard palate only	Procedure	CPT-4
42205	Palatoplasty for cleft palate, with closure of alveolar ridge; soft tissue only	Procedure	CPT-4
42210	Palatoplasty for cleft palate, with closure of alveolar ridge; with bone graft to alveolar ridge (includes obtaining graft)	Procedure	CPT-4
42215	Palatoplasty for cleft palate; major revision	Procedure	CPT-4
42220	Palatoplasty for cleft palate; secondary lengthening procedure	Procedure	CPT-4
42225	Palatoplasty for cleft palate; attachment pharyngeal flap	Procedure	CPT-4
42226	Lengthening of palate, and pharyngeal flap	Procedure	CPT-4
42227	Lengthening of palate, with island flap	Procedure	CPT-4
42235	Repair of anterior palate, including vomer flap	Procedure	CPT-4
42260	Repair of nasolabial fistula	Procedure	CPT-4
741.0	Spina bifida with hydrocephalus	Diagnosis	ICD-9-CM
741.00	Spina bifida with hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.01	Spina bifida with hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.02	Spina bifida with hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.03	Spina bifida with hydrocephalus, lumbar region	Diagnosis	ICD-9-CM
741.9	Spina bifida without mention of hydrocephalus	Diagnosis	ICD-9-CM
741.90	Spina bifida without mention of hydrocephalus, unspecified region	Diagnosis	ICD-9-CM
741.91	Spina bifida without mention of hydrocephalus, cervical region	Diagnosis	ICD-9-CM
741.92	Spina bifida without mention of hydrocephalus, dorsal (thoracic) region	Diagnosis	ICD-9-CM
741.93	Spina bifida without mention of hydrocephalus, lumbar region	Diagnosis	ICD-9-CM
742.0	Encephalocele	Diagnosis	ICD-9-CM
742.1	Microcephalus	Diagnosis	ICD-9-CM
742.2	Congenital reduction deformities of brain	Diagnosis	ICD-9-CM
743.00	Unspecified clinical anophthalmos	Diagnosis	ICD-9-CM
743.10	Unspecified microphthalmos	Diagnosis	ICD-9-CM
743.11	Simple microphthalmos	Diagnosis	ICD-9-CM
743.12	Microphthalmos associated with other anomalies of eye and adnexa	Diagnosis	ICD-9-CM
743.2	Buphthalmos	Diagnosis	ICD-9-CM
743.20	Unspecified buphthalmos	Diagnosis	ICD-9-CM
743.21	Simple buphthalmos	Diagnosis	ICD-9-CM
743.22	Buphthalmos associated with other ocular anomaly	Diagnosis	ICD-9-CM
743.30	Unspecified congenital cataract	Diagnosis	ICD-9-CM
743.31	Congenital capsular and subcapsular cataract	Diagnosis	ICD-9-CM
743.32	Congenital cortical and zonular cataract	Diagnosis	ICD-9-CM
743.33	Congenital nuclear cataract	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
743.34	Congenital total and subtotal cataract	Diagnosis	ICD-9-CM
743.35	Congenital aphakia	Diagnosis	ICD-9-CM
743.36	Congenital anomalies of lens shape	Diagnosis	ICD-9-CM
744.01	Congenital absence of external ear causing impairment of hearing	Diagnosis	ICD-9-CM
744.23	Microtia	Diagnosis	ICD-9-CM
748.0	Congenital choanal atresia	Diagnosis	ICD-9-CM
749	Cleft palate and cleft lip	Diagnosis	ICD-9-CM
749.0	Cleft palate	Diagnosis	ICD-9-CM
749.00	Unspecified cleft palate	Diagnosis	ICD-9-CM
749.01	Unilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.02	Unilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.03	Bilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.04	Bilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.1	Cleft lip	Diagnosis	ICD-9-CM
749.10	Unspecified cleft lip	Diagnosis	ICD-9-CM
749.11	Unilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.12	Unilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.13	Bilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.14	Bilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.2	Cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.20	Unspecified cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.21	Unilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.22	Unilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.23	Bilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.24	Bilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.25	Other combinations of cleft palate with cleft lip	Diagnosis	ICD-9-CM
750.3	Congenital tracheoesophageal fistula, esophageal atresia and stenosis	Diagnosis	ICD-9-CM
750.5	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-9-CM
751.1	Congenital atresia and stenosis of small intestine	Diagnosis	ICD-9-CM
751.2	Congenital atresia and stenosis of large intestine, rectum, and anal canal	Diagnosis	ICD-9-CM
751.61	Congenital biliary atresia	Diagnosis	ICD-9-CM
752.61	Hypospadias	Diagnosis	ICD-9-CM
753.0	Congenital renal agenesis and dysgenesis	Diagnosis	ICD-9-CM
753.15	Congenital renal dysplasia	Diagnosis	ICD-9-CM
753.5	Exstrophy of urinary bladder	Diagnosis	ICD-9-CM
755.2	Congenital reduction deformities of upper limb	Diagnosis	ICD-9-CM
755.3	Congenital reduction deformities of lower limb	Diagnosis	ICD-9-CM
755.4	Congenital reduction deformities, unspecified limb	Diagnosis	ICD-9-CM
755.5	Other congenital anomalies of upper limb, including shoulder girdle	Diagnosis	ICD-9-CM
755.6	Other congenital anomaly of lower limb, including pelvic girdle	Diagnosis	ICD-9-CM
755.8	Other specified congenital anomalies of unspecified limb	Diagnosis	ICD-9-CM
755.9	Unspecified congenital anomaly of unspecified limb	Diagnosis	ICD-9-CM
756.13	Congenital absence of vertebra	Diagnosis	ICD-9-CM
756.6	Congenital anomaly of diaphragm	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
756.71	Prune belly syndrome	Diagnosis	ICD-9-CM
756.72	Omphalocele	Diagnosis	ICD-9-CM
756.73	Gastroschisis	Diagnosis	ICD-9-CM
756.79	Other congenital anomalies of abdominal wall	Diagnosis	ICD-9-CM
Q01.0	Frontal encephalocele	Diagnosis	ICD-10-CM
Q01.1	Nasofrontal encephalocele	Diagnosis	ICD-10-CM
Q01.2	Occipital encephalocele	Diagnosis	ICD-10-CM
Q01.8	Encephalocele of other sites	Diagnosis	ICD-10-CM
Q01.9	Encephalocele, unspecified	Diagnosis	ICD-10-CM
Q02	Microcephaly	Diagnosis	ICD-10-CM
Q04.0	Congenital malformations of corpus callosum	Diagnosis	ICD-10-CM
Q04.1	Arhinencephaly	Diagnosis	ICD-10-CM
Q04.2	Holoprosencephaly	Diagnosis	ICD-10-CM
Q04.3	Other reduction deformities of brain	Diagnosis	ICD-10-CM
Q05.0	Cervical spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.1	Thoracic spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.2	Lumbar spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.3	Sacral spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.4	Unspecified spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q05.5	Cervical spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.6	Thoracic spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.7	Lumbar spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.8	Sacral spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q05.9	Spina bifida, unspecified	Diagnosis	ICD-10-CM
Q07.00	Arnold-Chiari syndrome without spina bifida or hydrocephalus	Diagnosis	ICD-10-CM
Q07.01	Arnold-Chiari syndrome with spina bifida	Diagnosis	ICD-10-CM
Q07.02	Arnold-Chiari syndrome with hydrocephalus	Diagnosis	ICD-10-CM
Q07.03	Arnold-Chiari syndrome with spina bifida and hydrocephalus	Diagnosis	ICD-10-CM
Q11.1	Other anophthalmos	Diagnosis	ICD-10-CM
Q11.2	Microphthalmos	Diagnosis	ICD-10-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM
Q12.2	Coloboma of lens	Diagnosis	ICD-10-CM
Q12.3	Congenital aphakia	Diagnosis	ICD-10-CM
Q12.4	Spherophakia	Diagnosis	ICD-10-CM
Q12.8	Other congenital lens malformations	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	Diagnosis	ICD-10-CM
Q16.0	Congenital absence of (ear) auricle	Diagnosis	ICD-10-CM
Q17.2	Microtia	Diagnosis	ICD-10-CM
Q30.0	Choanal atresia	Diagnosis	ICD-10-CM
Q35.1	Cleft hard palate	Diagnosis	ICD-10-CM
Q35.3	Cleft soft palate	Diagnosis	ICD-10-CM
Q35.5	Cleft hard palate with cleft soft palate	Diagnosis	ICD-10-CM
Q35.7	Cleft uvula	Diagnosis	ICD-10-CM
Q35.9	Cleft palate, unspecified	Diagnosis	ICD-10-CM

Appendix J. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Specific Major Congenital Malformations of Interest in this Request

Code	Description	Code Category	Code Type
Q36.0	Cleft lip, bilateral	Diagnosis	ICD-10-CM
Q36.1	Cleft lip, median	Diagnosis	ICD-10-CM
Q36.9	Cleft lip, unilateral	Diagnosis	ICD-10-CM
Q37.0	Cleft hard palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.1	Cleft hard palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.2	Cleft soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.3	Cleft soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.4	Cleft hard and soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.5	Cleft hard and soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.8	Unspecified cleft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.9	Unspecified cleft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q39.0	Atresia of esophagus without fistula	Diagnosis	ICD-10-CM
Q39.1	Atresia of esophagus with tracheo-esophageal fistula	Diagnosis	ICD-10-CM
Q39.2	Congenital tracheo-esophageal fistula without atresia	Diagnosis	ICD-10-CM
Q39.3	Congenital stenosis and stricture of esophagus	Diagnosis	ICD-10-CM
Q39.4	Esophageal web	Diagnosis	ICD-10-CM
Q40.0	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-10-CM
Q41.0	Congenital absence, atresia and stenosis of duodenum	Diagnosis	ICD-10-CM
Q41.1	Congenital absence, atresia and stenosis of jejunum	Diagnosis	ICD-10-CM
Q41.2	Congenital absence, atresia and stenosis of ileum	Diagnosis	ICD-10-CM
Q41.8	Congenital absence, atresia and stenosis of other specified parts of small intestine	Diagnosis	ICD-10-CM
Q41.9	Congenital absence, atresia and stenosis of small intestine, part unspecified	Diagnosis	ICD-10-CM
Q42.0	Congenital absence, atresia and stenosis of rectum with fistula	Diagnosis	ICD-10-CM
Q42.1	Congenital absence, atresia and stenosis of rectum without fistula	Diagnosis	ICD-10-CM
Q42.2	Congenital absence, atresia and stenosis of anus with fistula	Diagnosis	ICD-10-CM
Q42.3	Congenital absence, atresia and stenosis of anus without fistula	Diagnosis	ICD-10-CM
Q42.8	Congenital absence, atresia and stenosis of other parts of large intestine	Diagnosis	ICD-10-CM
Q42.9	Congenital absence, atresia and stenosis of large intestine, part unspecified	Diagnosis	ICD-10-CM
Q44.2	Atresia of bile ducts	Diagnosis	ICD-10-CM
Q44.3	Congenital stenosis and stricture of bile ducts	Diagnosis	ICD-10-CM
Q54.0	Hypospadias, balanic	Diagnosis	ICD-10-CM
Q54.1	Hypospadias, penile	Diagnosis	ICD-10-CM
Q54.2	Hypospadias, penoscrotal	Diagnosis	ICD-10-CM
Q54.3	Hypospadias, perineal	Diagnosis	ICD-10-CM
Q54.8	Other hypospadias	Diagnosis	ICD-10-CM
Q54.9	Hypospadias, unspecified	Diagnosis	ICD-10-CM
Q60.0	Renal agenesis, unilateral	Diagnosis	ICD-10-CM
Q60.1	Renal agenesis, bilateral	Diagnosis	ICD-10-CM
Q60.2	Renal agenesis, unspecified	Diagnosis	ICD-10-CM
Q60.3	Renal hypoplasia, unilateral	Diagnosis	ICD-10-CM
Q60.4	Renal hypoplasia, bilateral	Diagnosis	ICD-10-CM
Q60.5	Renal hypoplasia, unspecified	Diagnosis	ICD-10-CM
Q60.6	Potter's syndrome	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q64.10	Exstrophy of urinary bladder, unspecified	Diagnosis	ICD-10-CM
Q64.11	Supravesical fissure of urinary bladder	Diagnosis	ICD-10-CM
Q64.12	Cloacal exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q64.19	Other exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q73.0	Congenital absence of unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.1	Phocomelia, unspecified limb(s)	Diagnosis	ICD-10-CM
Q73.8	Other reduction defects of unspecified limb(s)	Diagnosis	ICD-10-CM
Q74.8	Other specified congenital malformations of limb(s)	Diagnosis	ICD-10-CM
Q74.9	Unspecified congenital malformation of limb(s)	Diagnosis	ICD-10-CM
Q76.49	Other congenital malformations of spine, not associated with scoliosis	Diagnosis	ICD-10-CM
Q79.0	Congenital diaphragmatic hernia	Diagnosis	ICD-10-CM
Q79.1	Other congenital malformations of diaphragm	Diagnosis	ICD-10-CM
Q79.2	Exomphalos	Diagnosis	ICD-10-CM
Q79.3	Gastroschisis	Diagnosis	ICD-10-CM
Q79.4	Prune belly syndrome	Diagnosis	ICD-10-CM
Q79.51	Congenital hernia of bladder	Diagnosis	ICD-10-CM
Q79.59	Other congenital malformations of abdominal wall	Diagnosis	ICD-10-CM

Appendix K. Specifications Defining Parameters for this Request

The Center for Drug Evaluation and Research (CDER) has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) Pregnancy tool [11.3.0] with ad hoc programming to assess fingolimod exposure during pregnancy among women who have multiple sclerosis and characterize occurrence of malformations post-delivery in the Sentinel Distributed Database (SDD).

Query period (bound by the delivery date): January 1, 2011 - May 31,2022

Coverage requirement: Medical & Drug Coverage

Enrollment requirement prior to index date (date of delivery): 484 days (longest duration 301 days + 183 prior)

Enrollment requirement post index date (date of delivery): Run 1: 30 days
Run 2: 90 days

Enrollment gap: 45 days

Pre-pregnancy period (relative to pregnancy start date): 183 days

Age groups (calculated at delivery date): 10-17, 18-39, 40-54

Sex: Female only

Stratifications: None

Envelope macro: Reclassify encounters during inpatient stay as inpatient

Freeze data: N

Utilize MIL table? Y

Pregnancy Episode Creation

Scenario	Delivery Definition	Linkage Codes	Pregnancy Cohort Definition	Delivery Caresetting	Create Baseline Table?	Delivery Washout Period Relative to Delivery Date	Pregnancy Duration Definition (Pre/PostTerm Codes)	Pre/Post-Term Code Evaluation Window Relative to Delivery Date	Pregnancy Duration in Absence of Pre/Post-Term Codes (ITT Days)
1	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days

Appendix K. Specifications Defining Parameters for this Request

Pregnancy Episode Creation									
Scenario	Delivery Definition	Linkage Codes	Pregnancy Cohort Definition	Delivery Caresetting	Create Baseline Table?	Delivery Washout Period Relative to Delivery Date	Pregnancy Duration Definition (Pre/PostTerm Codes)	Pre/Post-Term Code Evaluation Window Relative to Delivery Date	Pregnancy Duration in Absence of Pre/Post-Term Codes (ITT Days)
2	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days
3	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days
4	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days

Appendix K. Specifications Defining Parameters for this Request									
Pregnancy Episode Creation									
Scenario	Delivery Definition	Linkage Codes	Pregnancy Cohort Definition	Delivery Caresetting	Create Baseline Table?	Delivery Washout Period Relative to Delivery Date	Pregnancy Duration Definition (Pre/PostTerm Codes)	Pre/Post-Term Code Evaluation Window Relative to Delivery Date	Pregnancy Duration in Absence of Pre/Post-Term Codes (ITT Days)
5	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days
6	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days
7	Use MIL Table	All linkage codes	Cohort includes all valid pregnancy episodes during the query period	N/A	Yes	273 days	Use Pregnancy Algorithm Codes	7 days	273 days

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.

NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Appendix K. Specifications Defining Parameters for this Request (Continued)							
Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
1	Multiple Sclerosis	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
	AND						
	Fingolimod	Inclusion	N/A	N/A	Estimated pregnancy start date	0	+ 90
	Interferon beta 1a or 1b	Exclusion	N/A	N/A	Estimated pregnancy start date	-22	-1
	Dimethyl fumarate	Exclusion	N/A	N/A	Estimated pregnancy start date	-1	-1
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)

Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
	Multiple Sclerosis AND	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
	Fingolimod	Inclusion	N/A	N/A	Estimated pregnancy start date	-45	+ 90
	Interferon beta 1a or 1b	Exclusion	N/A	N/A	Estimated pregnancy start date	-22	-1
2	Dimethyl fumarate	Exclusion	N/A	N/A	Estimated pregnancy start date	-1	-1
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)							
Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
3	Multiple Sclerosis AND	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
	Interferon beta 1a or 1b	Inclusion	N/A	N/A	Estimated pregnancy start date	0	+ 90
	Fingolimod	Exclusion	N/A	N/A	Estimated pregnancy start date	-45	-1
	Dimethyl fumarate	Exclusion	N/A	N/A	Estimated pregnancy start date	-1	-1
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)

Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
4	Multiple Sclerosis	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
	AND						
	Interferon beta 1a or 1b	Inclusion	N/A	N/A	Estimated pregnancy start date	-22	+ 90
	Fingolimod	Exclusion	N/A	N/A	Estimated pregnancy start date	-45	-1
	Dimethyl fumarate	Exclusion	N/A	N/A	Estimated pregnancy start date	-1	-1
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)

Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
5	Multiple Sclerosis	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
	AND						
	Dimethyl fumarate	Inclusion	N/A	N/A	Estimated pregnancy start date	0	+ 90
	Fingolimod	Exclusion	N/A	N/A	Estimated pregnancy start date	-45	-1
	Interferon beta 1a or 1b	Exclusion	N/A	N/A	Estimated pregnancy start date	-22	-1
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)

Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
	Multiple Sclerosis	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
6	<ul style="list-style-type: none"> 1. Beta interferon 1a or 1b 2. Glatiramer acetate 3. Mitoxantrone 4. Natalizumab 5. Fingolimod 6. Dimethyl fumarate 7. PEGylated Interferon 8. Alemtuzumab 9. Ocrelizumab 10. Siponimod 11. Diroximel fumarate 	Exclusion	N/A	N/A	Estimated pregnancy start date	0	+ 90
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

Appendix K. Specifications Defining Parameters for this Request (Continued)

Inclusion/Exclusion Criteria							
Scenario	Inclusion/ Exclusion group	Criteria	Care setting	Principal diagnosis position	Anchor date	Evaluation period start	Evaluation period end
	Multiple Sclerosis	Inclusion	Any	Any	Estimated pregnancy start date	-183	-1
7	1. Beta interferon 1a or 1b	Exclusion	N/A	N/A	Estimated pregnancy start date	1. -22	+ 90
	2. Glatiramer acetate					2. -1	
	3. Mitoxantrone					3. -45	
	4. Natalizumab					4. -75	
	5. Fingolimod					5. -45	
	6. Dimethyl fumarate					6. -1	
	7. PEGylated Interferon					7. -17	
	8. Alemtuzumab					8. -70	
	9. Ocrelizumab					9. -130	
	10. Siponimod					10. -7	
	11. Diroximel fumarate					11. -1	
	Malformations resulting from chromosomal abnormalities	Exclusion	Any	Any	Delivery Date	-301	Run 1: Del Date +30 Run 2: Del Date+90
	Teratogens (Warfarin, antineoplastic agents, lithium, isotretinoin, misoprostol, thalidomide, leflunomide, teriflunomide, topiramate, cladribine)	Exclusion	N/A	N/A	Estimated pregnancy start date	-90	+90

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.
 NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
1	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
2	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
3	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
4	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A
5	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
6	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

Appendix K. Specifications Defining Parameters for this Request (Continued)			
Scenario	Exclude evidence of days supply if inclusion/exclusion evaluation period includes	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
	N/A	1	N/A
7	Evaluation period should search for evidence of dispensing	1	N/A
	N/A	1	N/A
	Evaluation period should search for evidence of dispensing	1	N/A

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.
 NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Appendix L. Half-lives of Multiple Sclerosis (MS) Treatments

Therapies approved to treat MS	Termination Half-Lives	Upper Bound of Termination Half-Lives (Days)	5X Half-Lives (Days)	Source
Beta interferon 1b [Betaseron (Betaferon)]	8 minutes to 4.3 hours	0.18	22 (used Rebif for reference)	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/103471s5197lbl.pdf
Beta interferon 1a (Avonex)	19 hours (range 8 to 54 hours)	2.25	22 (used Rebif for reference)	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/103628s5263lbl.pdf
Beta interferon 1a (Rebif)	69 ± 37 hours	4.42	22 (used Rebif for reference)	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/103780s5203s5207lbl.pdf
Beta interferon 1b (Extavia)	8 minutes to 4.3 hours	0.18	22 (used Rebif for reference)	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/125290s070lbl.pdf
Glatiramer acetate (Copaxone)	N/A	N/A	1 (used minimum half-life across all MS therapies)	N/A (rapid elimination)
Mitoxantrone (Novantrone)	23 to 215 hours, median of 75 hours	8.96	45	https://www.accessdata.fda.gov/drugsatfda_docs/label/2010/019297s033s034lbl.pdf
Natalizumab (Tysabri)	11 ± 4 days	15.00	75	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/125104s968s969lbl.pdf
Fingolimod (Gilenya)	6 to 9 days	9.00	45	https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/022527s031lbl.pdf
Dimethyl fumarate (Tecfidera)	1 hour	0.04	1	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/204063s026lbl.pdf
PEGylated Interferon beta (Plegridy)	78 hours	3.25	17	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/125499s021lbl.pdf
Alemtuzumab (Lemtrada)	2 weeks	14.00	70	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/103948s5182lbl.pdf
Ocrelizumab (Ocrevus)	26 days	26.00	130	https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/761053s022lbl.pdf
Siponimod (Mayzent)	30 hours	1.25	7	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/209884s003lbl.pdf
Diroximel fumarate (Vumerity)	1 hour	0.04	1	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/211855s004lbl.pdf

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Cardiac malformations post-delivery	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	1
Cardiac malformations in the second trimester	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	1
Cardiac malformations in the third trimester	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Cardiac malformations in the second or third trimester	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Cardiac malformations in the first trimester	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	1
Cardiac malformations post-delivery (2+ codes)	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	2
Cardiac malformations in the second trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	2

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Cardiac malformations in the third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Cardiac malformations in the second or third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Cardiac malformations in the first trimester (2+ codes)	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	2
Urinary malformations post-delivery	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	1
Urinary malformations in the second trimester	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	1
Urinary malformations in the third trimester	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Urinary malformations in the second or third trimester	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Urinary malformations in the first trimester	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	1
Urinary malformations post-delivery (2+ codes)	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	2
Urinary malformations in the second trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	2
Urinary malformations in the third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Urinary malformations in the second or third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Urinary malformations in the first trimester (2+ codes)	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	2
Cardiac or Urinary malformations post-delivery	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Cardiac or Urinary malformations in the second trimester	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	1
Cardiac or Urinary malformations in the third trimester	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Cardiac or Urinary malformations in the second or third trimester	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Cardiac or Urinary malformations in the first trimester	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	1
Cardiac or Urinary malformations post-delivery (2+ codes)	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	2
Cardiac or Urinary malformations in the second trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	+180	Mother	N/A	2
Cardiac or Urinary malformations in the third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	2

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics

Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Cardiac or Urinary malformations in the second or third trimester (2+ codes)	Any	Any	Estimated pregnancy start date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Cardiac or Urinary malformations in the first trimester (2+ codes)	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	2

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Any non-cardiac/urinary malformations (central nervous system, eye, ear, oroifacial/respiratory, gastrointestinal, genitourinary/renal, musculoskeletal) post-delivery	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	1
Any non-cardiac/urinary malformations in the second trimester	Any	Any	Estimated pregnancy start date; Delivery date	+91	+180	Mother	N/A	1
Any non-cardiac/urinary malformations in the third trimester	Any	Any	Estimated pregnancy start date; Delivery date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Any non-cardiac/urinary malformations in the second or third trimester	Any	Any	Estimated pregnancy start date; Delivery date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Any non-cardiac/urinary malformations in the first trimester	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	1
Any non-cardiac/urinary malformations (central nervous system, eye, ear, oroifacial/respiratory, gastrointestinal, genitourinary/renal, musculoskeletal) post-delivery (2+ codes)	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	2

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Any non-cardiac/urinary malformations in the second trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+91	+180	Mother	N/A	2
Any non-cardiac/urinary malformations in the third trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Any non-cardiac/urinary malformations in the second or third trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Any non-cardiac/urinary malformations in the first trimester (2+ codes)	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	2
Any malformations post-delivery	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	1
Any malformations in the second trimester	Any	Any	Estimated pregnancy start date; Delivery date	+91	+180	Mother	N/A	1
Any malformations in the third trimester	Any	Any	Estimated pregnancy start date; Delivery date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Any malformations in the second or third trimester	Any	Any	Estimated pregnancy start date; Delivery date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	1
Any malformations in the first trimester	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	1
Any malformations post-delivery (2+ codes)	Any	Any	Delivery date	0	Run 1: +30 Run 2: +90	Mother or Infant	N/A	2
Any malformations in the second trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+91	+180	Mother	N/A	2
Any malformations in the third trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+181	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Any malformations in the second or third trimester (2+ codes)	Any	Any	Estimated pregnancy start date; Delivery date	+91	Delivery (programmed, day of delivery not included)	Mother	N/A	2
Any malformations in the first trimester (2+ codes)	Any	Any	Estimated pregnancy start date	0	+90	Mother	N/A	2

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Obstetric Comorbidity Index	Any	Any	Delivery date	-484	0	Mother	N/A	N/A
Psychiatric and neurological conditions	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Substance Use Disorder	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Nicotine use	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Diabetes	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Hypertension	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Obesity	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1
Urinary disease	Any	Any	Estimated pregnancy start date	-183	+90	Mother	N/A	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics

Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Psychotropic medications (Anticonvulsants, antidepressants, anxiolytics, antipsychotics, barbiturates, benzodiazepines, other hypnotics)	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Antidiabetic medications	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Antihypertensive medications	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Buprenorphine	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Insulin	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Methadone	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Naloxone	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Naltrexone	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1

Appendix M. Specifications Defining Baseline Characteristics in this Request

Baseline Characteristics								
Condition/Characteristic	Care setting	Principal diagnosis position	Anchor Date	Evaluation period start (days)	Evaluation period end (days)	Mother or Infant Record	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period
Opioids	N/A	N/A	Estimated pregnancy start date	-183	+90	Mother	Evaluation period should search for evidence of days supply	1
Suspected teratogens (fluconazole, methimazole, danazol, propylthiouracil, progestins, angiotensin converting enzyme inhibitors, and corticosteroids)	N/A	N/A	Estimated pregnancy start date	0	+90	Mother	Evaluation period should search for evidence of days supply	1

Appendix N. Diagram Detailing the Design of the Request

